Add-on and after sales capabilities

COMPLETE TURNKEY ASSISTANCE WITH

BUSINESS DEVELOPMENT

MECHANICAL

+ ENGINEERED PLANNING SUPPORT
+ EXPERT APPLICATION GUIDANCE
+ 5 DAYS LEAD TIME FOR PRELIMINARY DRAWINGS
+ FREE COMMISSIONING ASSISTANCE FOR PROJECTS WITHIN SOUTH AFRICAN BORDERS
+ TAILORED PREFERENTIAL PRICING AGREEMENTS FOR COMMISSIONING ASSISTANCE WITHIN AFRICAN COUNTRIES FOR ALL NEW PROJECTS

ELECTRONICS

+ ENGINEERED PLANNING SUPPORT
+ EXPERT APPLICATION GUIDANCE
+ SITE SURVEYS, DETAILED REPORTS AND EQUIPMENT RECOMMENDATIONS
+ ON-SITE ENERGY-EFFICIENCY ASSESSMENTS

SERVICE AND REPAIRS

+ CUSTOM SLAs FOR MAINTENANCE, SERVICE AND REPAIRS
+ SHUTDOWN REPAIR MAINTENANCE CAPACITY PLANNING
+ ON-SITE ASSISTANCE, ASSESSMENTS AND REPAIRS



SERVICE AND REPAIR CENTRE

PRODUCT REPAIRS

+ Sandblasting
+ Spray painting
+ Oil recycling
+ Product stripping
+ Load testing

FABRICATION

+ Manufacturing of baseplates
+ Manufacturing of guards
+ Steelworks
+ Drop-in solutions and lite engineering
+ 3D scanning
+ Manufacturing of non-SEW gearing within SEW group

MOTOR REPAIRS

+ Motor assembly
+ Motor rewinding
+ Curing burnout ovens
+ Rotor balancing

ENGINEERED SERVICES

+ Bespoke Designs to suit client requirements
+ 3D scanning capabilities
+ Digital Twin comparisons
+ Thermal Calculations for units
+ Shaft & bearing calculation based on client input
+ Reverse engineering of competitor units and gear components for repairs
+ Power transmission infrastructure surveys
+ Dedicated Sales force for service and repairs

GEAROIL BY SEW-EURODRIVE

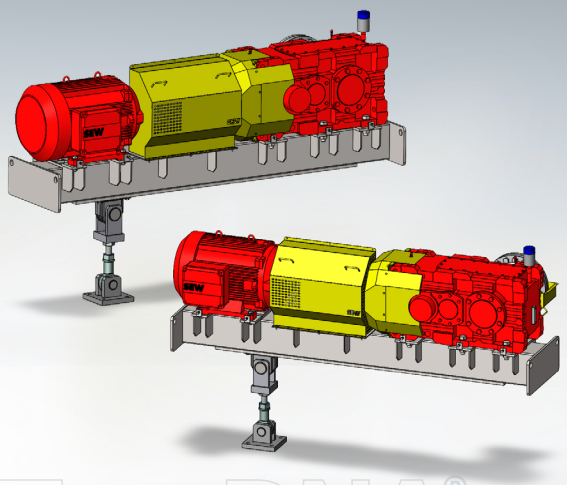
GearOil by SEW-EURODRIVE increases the performance of SEW gear units by reducing friction between the gear wheels as it develops an outstanding lubrication film. This allows for a 50% longer service life of the oil than conventional lubricants. Wear parts such as sealing rings and bearings also benefit from an increased lifespan.

At the same time, GearOil by SEW-EURODRIVE increases the efficiency of the gear unit and protects it from corrosion and damaging oil foaming. The self-cleaning properties of the lubricants prevent deposits as they bind water and dirt particles.



AVAILABLE IN

+ Canisters (1, 5 and 20 liters)
+ Barrels (205 liters)
+ IBC Containers (1000 liters)



THE ALL-INCLUSIVE OPTION

SEW-EURODRIVE TrueDNA®

SEW-EURODRIVE's TrueDNA® provides a turnkey solution to your industrial drive needs. Offering a high degree of adaptation flexibility, covering a broad range of power, torque and speed characteristics.

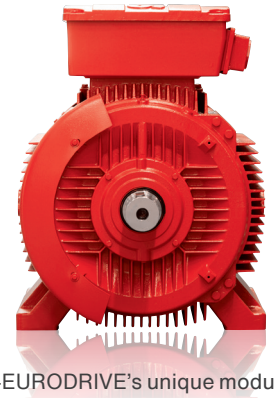
The TrueDNA® package can be easily adapted and integrated to drive a variety of equipment in a number of heavy industries. **The TrueDNA® package includes the most innovative X.e Series gearbox, specified flexible/fluid coupling, SEW-EURODRIVE IEC motor, rigid flange coupling and your choice of a bellhousing, swingbase or drop-in solution.**

YOUR BENEFITS:

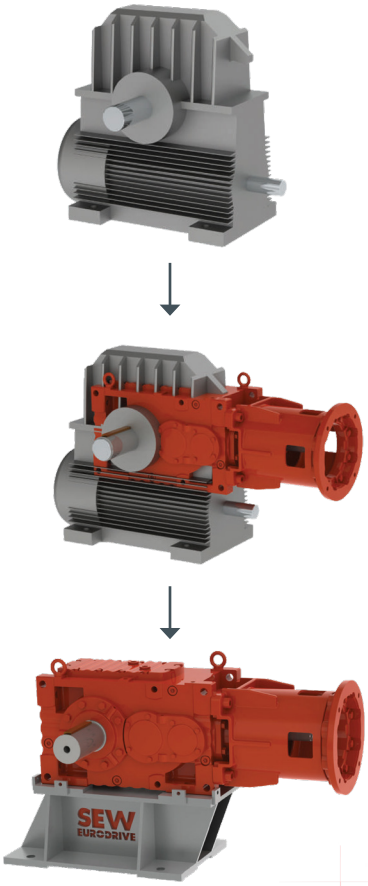
+ Offer mostly stocked items
+ Reduced lead times: approx 6-8 weeks from order*
+ Prefilled with GearOil by SEW-EURODRIVE
+ Extended warranty for 24 months from commissioning
+ Unrivalled local stockholding
+ Complimentary maintenance training for end user
+ Competitively priced
+ Delivered to site for locations within South Africa

*After design and quantities have been clearly established, ideal lead time is based on stockholding at SEW-EURODRIVE South Africa

THE MODULAR MOTOR SYSTEM



SEW-EURODRIVE's unique modular motor system comprises of motors, accessories and options all within the brand. The extensive range of motor options and accessories are available for every motor in the DR.. series, allowing you to easily select and integrate your products into a complete motor configuration. We supply motors with a minimum rating of IE3, available in various IP classes as well as kW sizes and voltage options to suite your requirements.
The detachable feet of the DR.. motors allow for various mounting options depending on your application and the terminal box boasts multiple connection variants and positionings on the motor.



DROP-IN REPLACEMENT SOLUTIONS

SEW-EURODRIVE's drop-in replacement solution greatly reduces downtime, whilst increasing overall system efficiency and reliability.

Local assembly allows for fast turn-around to meet the demand of industry. When an aging drive is ready to be replaced, a modern drive can be assembled, delivered and installed at the same time as the removal of the old drive, reducing downtime, labour costs and crane costs.

+ Reduce down time
+ Increase cost-saving
+ In-house drawing creation according to customer requirements
+ Exact drop-in options
+ Modernization and efficiency through use of latest SEW-EURODRIVE drive technology
+ Bespoke design for intended application
+ Removal and new installation occurs simultaneously

DRIVE ACADEMY®

+ Cutting-edge training technology and unique training methods.
+ Qualified and experienced training staff focusing on real-world scenarios.
+ Practical, hands-on experience allows for a deeper comprehension of the topics.
+ Bespoke training based on your needs, product range and current knowledge base.
+ All training is concluded with theoretical and practical tests, ensuring a sustainable, measurable investment.
+ Training available at SEW-EURODRIVE head office, on-site or via remote platforms.



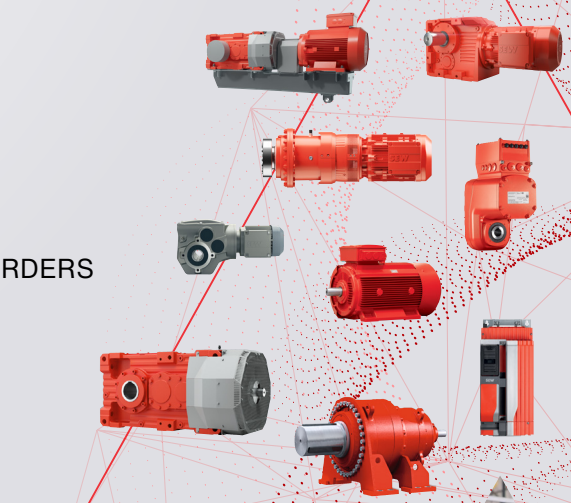
SEW EURODRIVE

YOUR PARTNER IN DRIVE TRANSMISSION AND AUTOMATION

PROVIDING YOU WITH ACCESS TO

SUPERIOR AFTER-SALE SERVICE AND SUPPORT

- DEDICATED STAFF FOR KEY ACCOUNTS AND SPECIALISED INDUSTRIES
- FREE ON-SITE COMMISSIONING ASSISTANCE ON NEW PROJECTS WITHIN SOUTH AFRICAN BORDERS
- LARGE STOCKHOLDING OF COMPONENTS NATIONALLY
- MODERNISATION AND REMOTE MINE MONITORING WITH DRIVERADAR®
- REPAIR AND RECONDITIONING SERVICES ON GEARED MOTORS, ELECTRONICS AND INDUSTRIAL GEAR UNITS
- CERTAIN ON-SITE REPAIRS AND MAINTENANCE CARRIED OUT BY EXPERT FIELD-SERVICE TECHNICIANS
- ADDITIONAL SERVICES INCLUDING:
  + Energy consumption survey
  + Power transmission infrastructure surveys
  + Custom Service Level Agreements for maintenance, service and repairs
  + Horizontal and vertical load-testing
  + Oil inspection and sampling
  + Vibration analysis
  + Laser alignment
  + Shutdown repair maintenance capacity planning









www.sew-eurodrive.co.za

SEW EURODRIVE

AFRICA
PRODUCT RANGE



Get started

Hover over map markers to view locations












www.sew-eurodrive.co.za

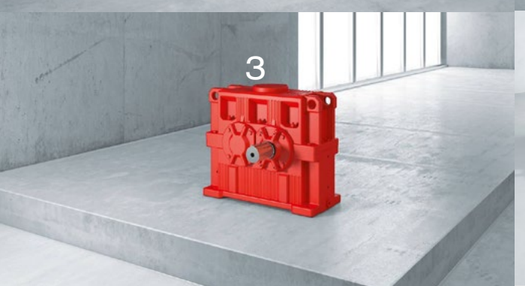
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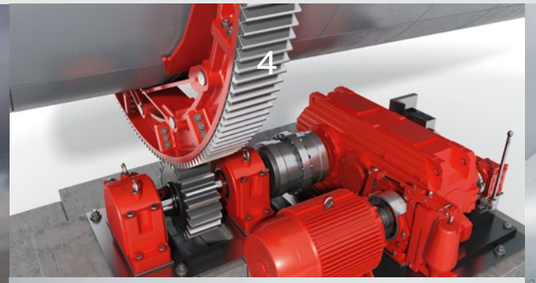
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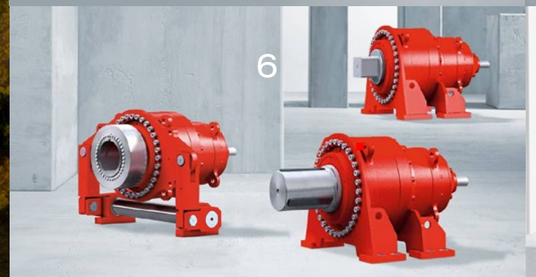
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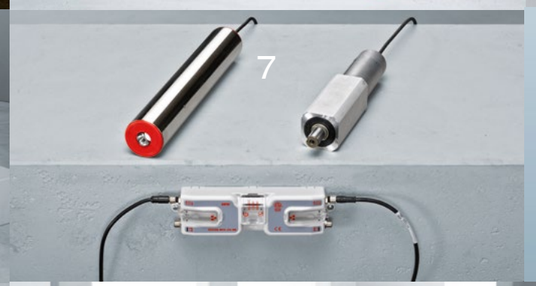
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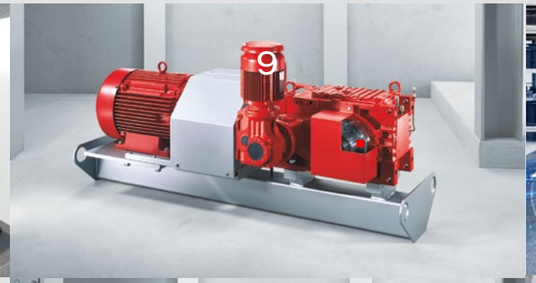
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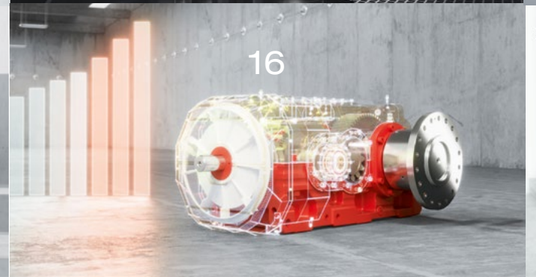
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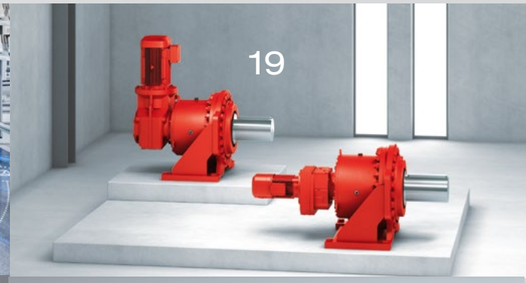
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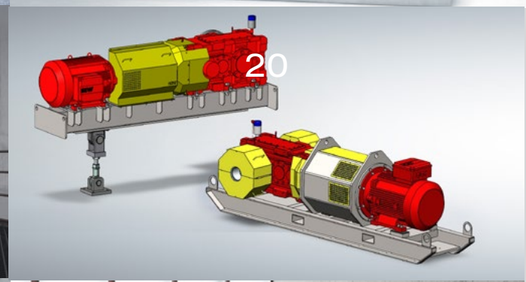
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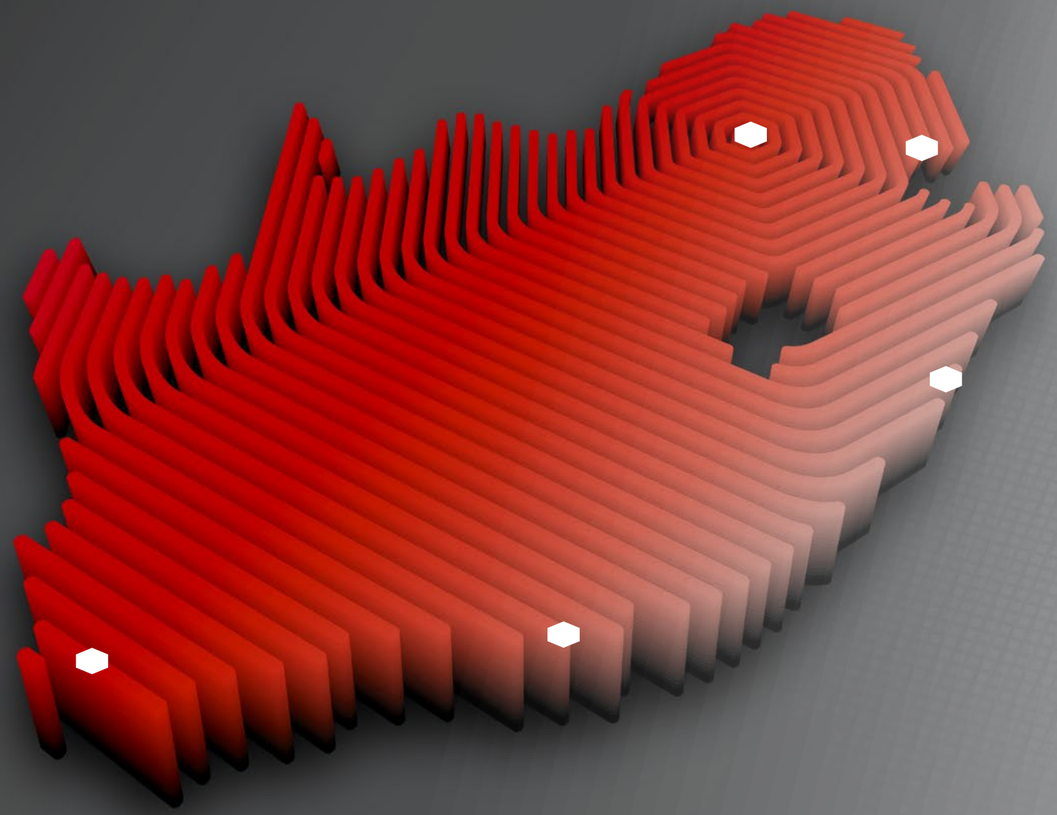
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BACK NEXT

Hover over map markers to view locations



ABOUT US

SOUTH AFRICAN HISTORY

Established in 1986

4 Assembly facilities:
JHB, Mbombela, Cape Town and Durban

1 Service and distribution facility in Gqeberha

B-BBEE level 3

Number of employees: 250

Industries:

- Mining
- Food and Beverage
- Automotive
- Airport and Logistics
- Petrochemical
- Water and Wastewater
- Sugar
- Ports and Harbours
- Paper and Pulp
- Construction and Material Handling

GEARED MOTOR RANGE

GEARMOTORS FROM THE SEW-EURODRIVE MODULAR SYSTEM

- The combination options for our gearmotors are as diverse and extensive as their possible uses.
- Thanks to the complete modular system developed by SEW-EURODRIVE, our customers have access to millions of options and can find their customized product solution for any requirement.
- The objective of the modular system is to be able to combine as few components as possible into the greatest possible range of end products.
- Gearmotors from SEW-EURODRIVE are broken down into the following categories: standard gearmotors, servo gearmotors, electrified monorail system gearmotors, variable-speed gearmotors, stainless steel gearmotors, and explosion-proof gearmotors.

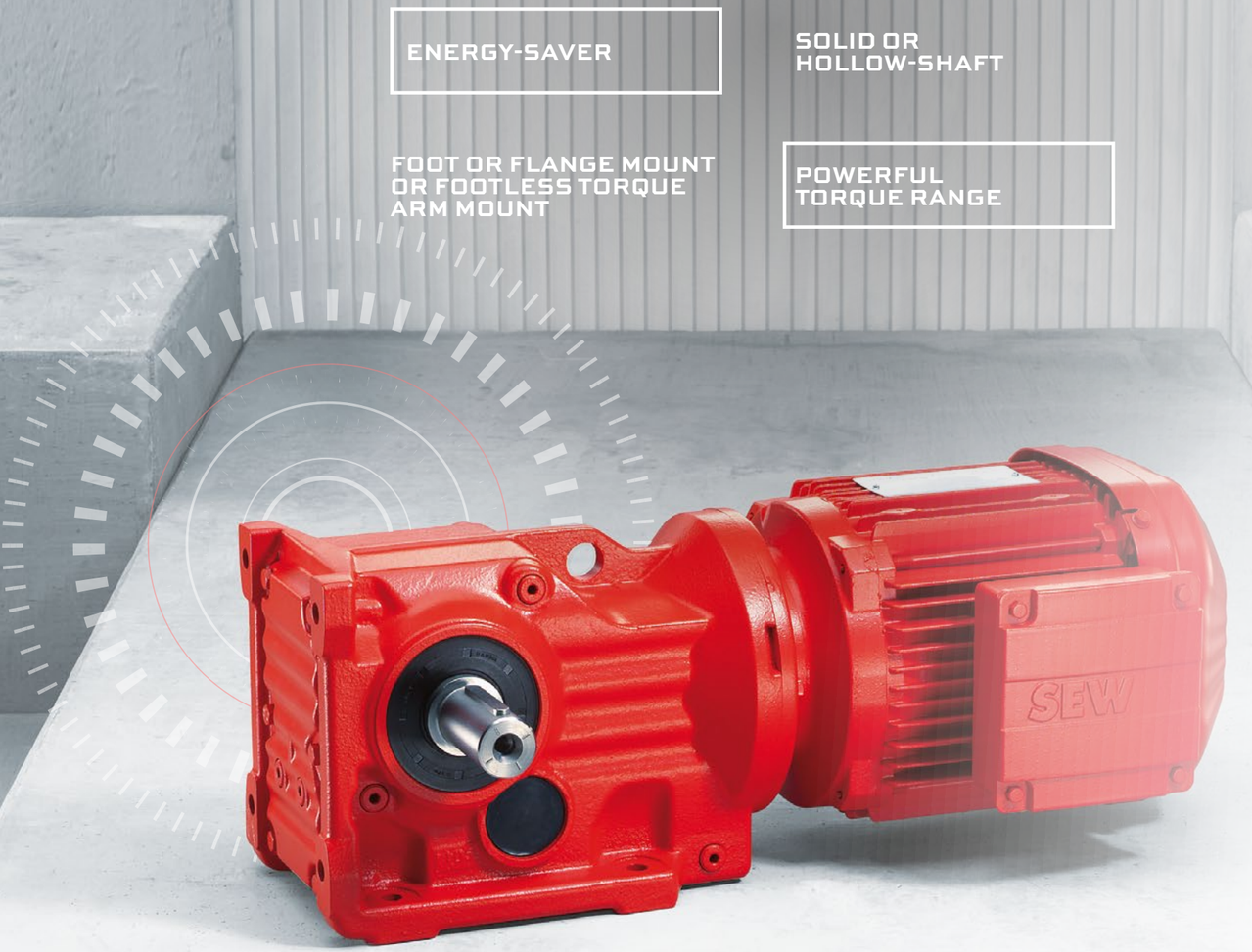
CONVEYOR LINES, LIFT AND LOWER LOADS

AIRPORTS

BEVERAGE INDUSTRY

INTRALOGISTICS

AUTOMOTIVE INDUSTRY



PRODUCT DESCRIPTION

The compact design of all our gear units is most obvious in our helical-bevel gear units. This property is particularly interesting, for example, for machine applications with limited space available. Here, you need powerful drive technology with a compact design. This is just the right environment for our helical-bevel gear units with a torque range from 80 to 53,000 Nm.

With their high efficiency in both directions of rotation and at any input speed, these right-angle gear units are very energy-efficient. Their high-endurance gearing is low-wearing For precise positioning tasks, you can use the K series gear units with reduced backlash.

The particularly sturdy sizes K..39 and K..49 complete our range of two-stage helical-bevel gear units. They set the standards together with sizes K..19 and K..29: four sizes allow for torques from 80 Nm to 500 Nm.

Only half the solution without a motor? Then use our modular concept and combine the gear units of the K series with an AC motor to a K..DR.. helical-bevel gearmotor, or with a servomotor to a K..CMP helical-bevel servo gearmotor of your choice. Or simply choose the separate AC motor or servomotor that meets your requirements.

BENEFITS

More cost efficiency
over the entire service life due to wear-free gearing and a long, low-maintenance operating life

High performance
in a compact design offered by 16 sizes with torque ratings between 80 Nm to 50,000 Nm

More energy efficiency
due to the high efficiency degree in both directions of rotation and at any input speed

Real lightweights
are the K..19 and K..29 sizes as their housing is made of aluminum

APPLICATION

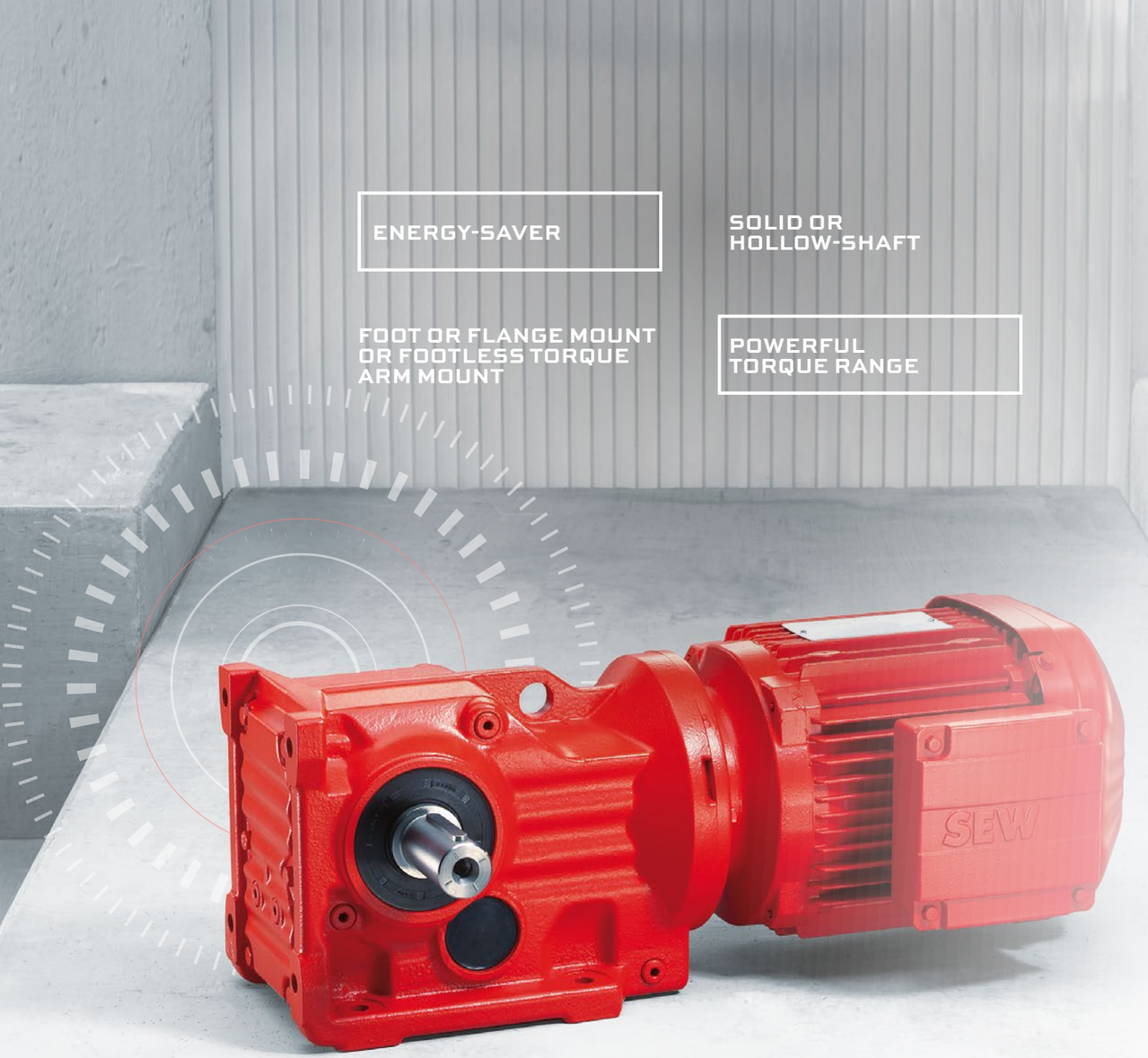
- → Pallet conveyors
- → Belt conveyors
- → Chain conveyors
- → Hoists and lifting stations
- → Scissor lift tables
- → Freight elevators
- → Travel and hoist drives in stacker cranes

ENERGY-SAVER

SOLID OR HOLLOW-SHAFT

FOOT OR FLANGE MOUNT OR FOOTLESS TORQUE ARM MOUNT

POWERFUL TORQUE RANGE



FEATURES

→ **Helical-bevel gear units (two and three stages)**

- High efficiency
- Gearing with high fatigue strength
- Long, low-maintenance operating life
- Can be combined with our complete motor portfolio

→ **Sizes K..37 to K..187 (three stages)**

- Double gear units for very small output speed also available
- Reduced backlash variant
- Available variants:
  - Foot- or flange-mounted
  - B5 or B14 flange-mounted
  - Solid shaft or hollow shaft
  - Hollow shaft with keyed connection, shrink disk, splined hollow shaft, or TorqLOC®

→ **Sizes K..19, K..29 and K..39, K..49 (two stages)**

- Low-loss, two-stage design with a high gearing efficiency of over 90%
- The aluminum housing of sizes K..19 and K..29 makes them particularly lightweight
- The sizes K..39 and K..49 are particularly sturdy and torsionally stiff due to the gray-cast iron housing
- Three base strips ensure an optimum connection to the customer machine even in critical mounting situations
- Available variants:
  - Foot- or B5 flange-mounted
  - Solid shaft or hollow shaft
  - Solid shaft or hollow shaft
  - Hollow shaft with keyed connection, shrink diskor TorqLOC® hollow shaft mounting system

TECHNICAL DATA

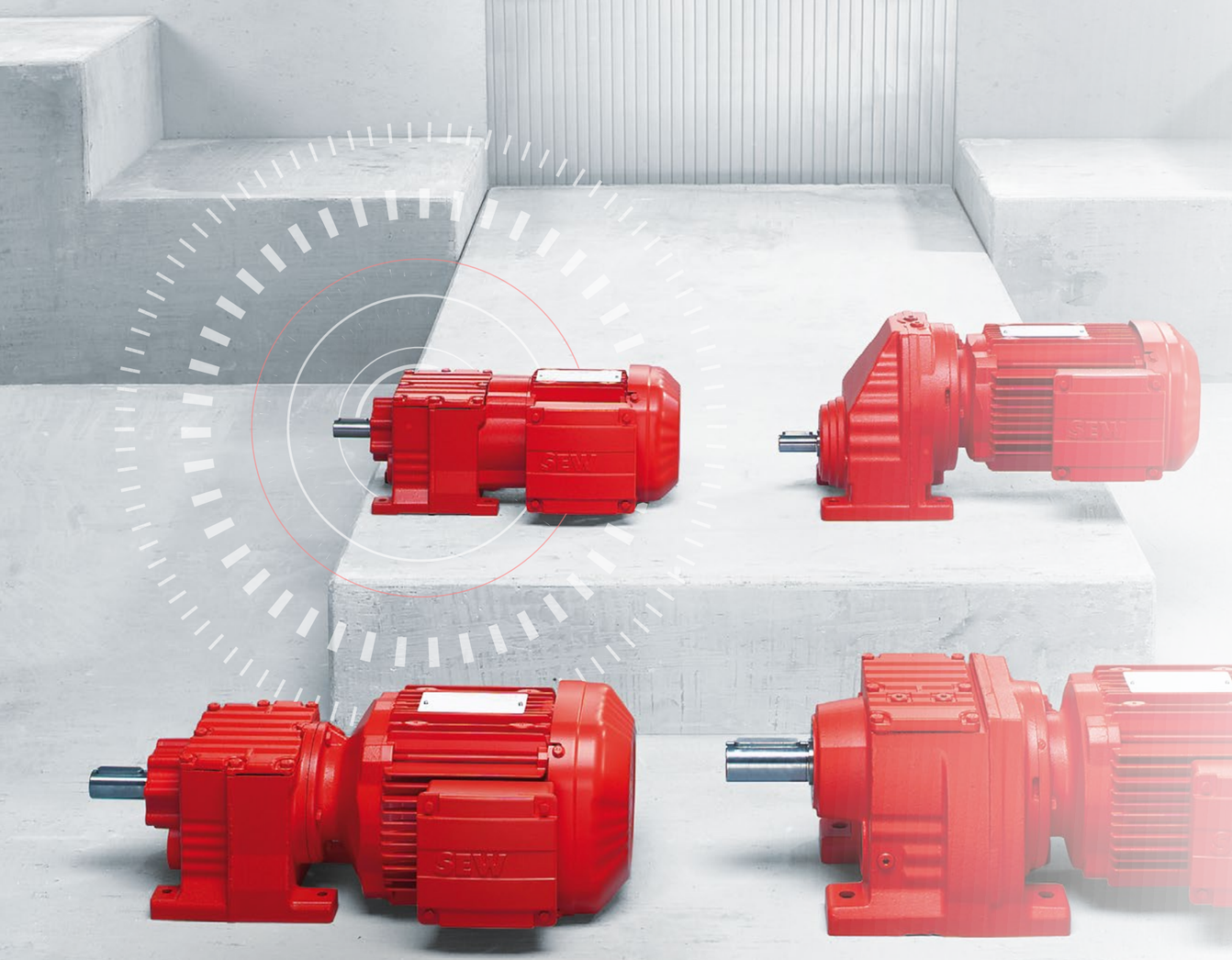
K SERIES / SIZES 37 / 47 / 57 / 67 / 77 / 87 / 97 / 107 / 127 / 157 / 167 / 187 (THREE STAGES)

Gear unit ratio	i	3.98 – 197.37
Double gear unit reduction ratio	i	94 – 32 625
Max. output torque	Nm	200 – 53 000*
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 90

*Also with reduced backlash

K SERIES / SIZES 19 / 29 / 39 / 49 (TWO STAGES)

		K..19	K..29	K..39	K..49
Gear unit ratio	i	4.50 – 58.68	3.19 -71.93	2.81 – 58.24	4.0 – 75.20
Max. output torque	Nm	80	130	300	500
Motor power range (Mounting via AM motor adapter)	kW	0.12 -1.1	0.12 – 2.2	0.12 – 4.0	0.12 – 7.5



LONG-TERM OPERATION

DURABLE IN HARSH CONDITIONS

FOOT AND/OR FLANGE MOUNTED

CLOSELY SPACED TORQUE STEPS

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PRODUCT DESCRIPTION

Helical gear units are the "hidden classics" in our gear unit portfolio: 6 single-stage and 15 two- and three-stage frame sizes cover a torque range from 50 to 20 000 Nm. This gear unit series is also far ahead in terms of gear unit ratios: from i = 1.30 to i = 289.74, in double gear units even i = 27 001. Torque ratings and gear unit ratios this finely stepped are hard to find in the market.

The demand for high output speeds or low weight is met by the R gear units as well, of course. Always with a high level of efficiency, our helical gear units offer an optimum ratio between torque output and installation space. This means: a helical gear unit almost always fits your application.

Only half the solution without a motor? Then use our modular concept and combine the gear units of the R series with an AC motor to a R..DR.. helical gearmotor, or with a servomotor to an R..CMP helical servo gearmotor of your choice. Or simply choose the separate AC motor or servomotor that meets your requirements.

BENEFITS

Comprehensive offer
because 6 single-stage and 15 two- and three-stage frame sizes offer finely stepped torque ratings and gear ratios

Easy combination
because you can easily combine your helical gear unit with an AC motor or a servomotor of your choice from our modular motor system

FEATURES

- **Helical gear units** with extended output bearing hub
- Specifically designed for **agitators**
- **Ten frame sizes:**
  - Offering gear unit ratios up to i = 289.74
  - Allowing for high overhung and axial loads as well as bending moments

APPLICATION

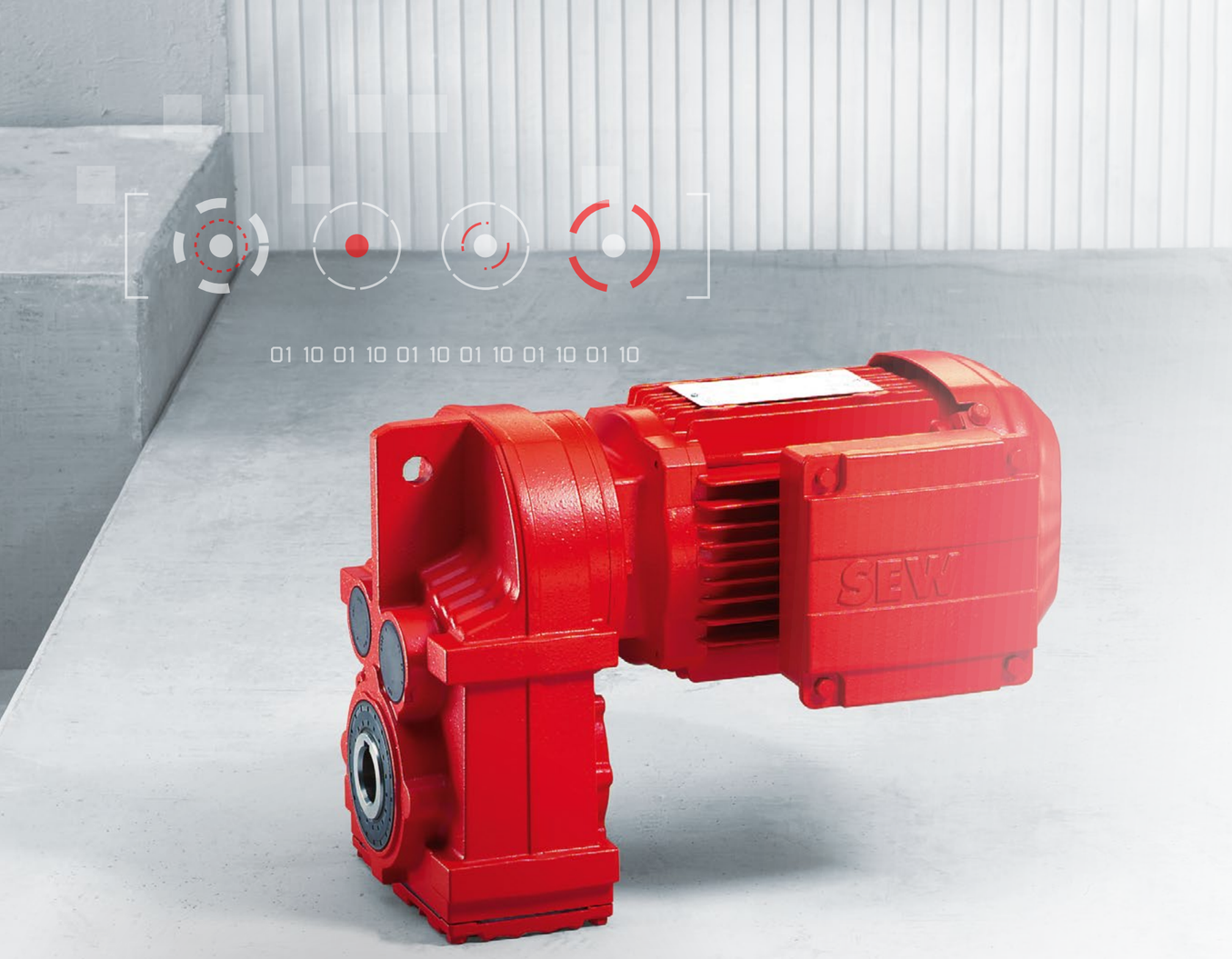
- Agitators
- Blenders
- Mixers
- Kneaders

TECHNICAL DATA

SIZES 57 / 67 / 77 / 87 / 97 / 107 / 127 / 137 / 147 / 167

Gear unit ratio	i	4.29 – 289.74
Double gear unit reduction ratio	i	134 – 27 001
Max. output torque	Nm	450 – 20 000
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 160

CLICK TO NEXT PAGE...



COMPACT, SLIM DESIGN

BROAD POWER RANGE

VARIETY OF MOUNTING POSITION OPTIONS

AVAILABLE IN 11 FRAME SIZES

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PRODUCT DESCRIPTION

One of our best gear units for limited installation space. A wide range of mounting positions and variants enable a broad spectrum of applications even under difficult installation conditions – without having to compromise on the performance. And what applies to many of our gear units: long operating lives without maintenance and wear-free gearing with a high fatigue strength.

With a high torque rating from 130 Nm to 20,000 Nm, our parallel-shaft helical gear units offer great performance in many conveying and processing applications. You can choose from foot-, flange- or shaft-mounted options. For precise positioning tasks, our parallel-shaft helical gear units are available with reduced backlash.

Only half the solution without a motor? Then use our modular concept and combine the gear units of the F series with an AC motor to a F..DR.. parallel-shaft gearmotor, or with a servomotor to an F..CMP parallel-shaft helical servo gearmotor of your choice. Or simply choose the separate AC motor or servomotor that meets your requirements.

BENEFITS

Low space requirement due to a slim and compact design

Wide range of applications thanks to 11 frame sizes (27 to 157) and numerous variants for very different requirements

Always a powerful performance even in reduced backlash design with output torques from 200 Nm to 18,000 Nm

FEATURES

- **Slim design** for limited installation space
- Also available with **reduced backlash**
- **Available variants:**
  - Foot- or flange-mounted
  - B5 or B14 flange-mounted
  - Solid shaft or hollow shaft
  - Hollow shaft with keyed connection, shrink disk, splined hollow shaft, or TorqLOC®

APPLICATION

- Conveyor applications
- Chain conveyors
- Process applications
- Presses
- Extruders
- Screw conveyors
- Gantry cranes

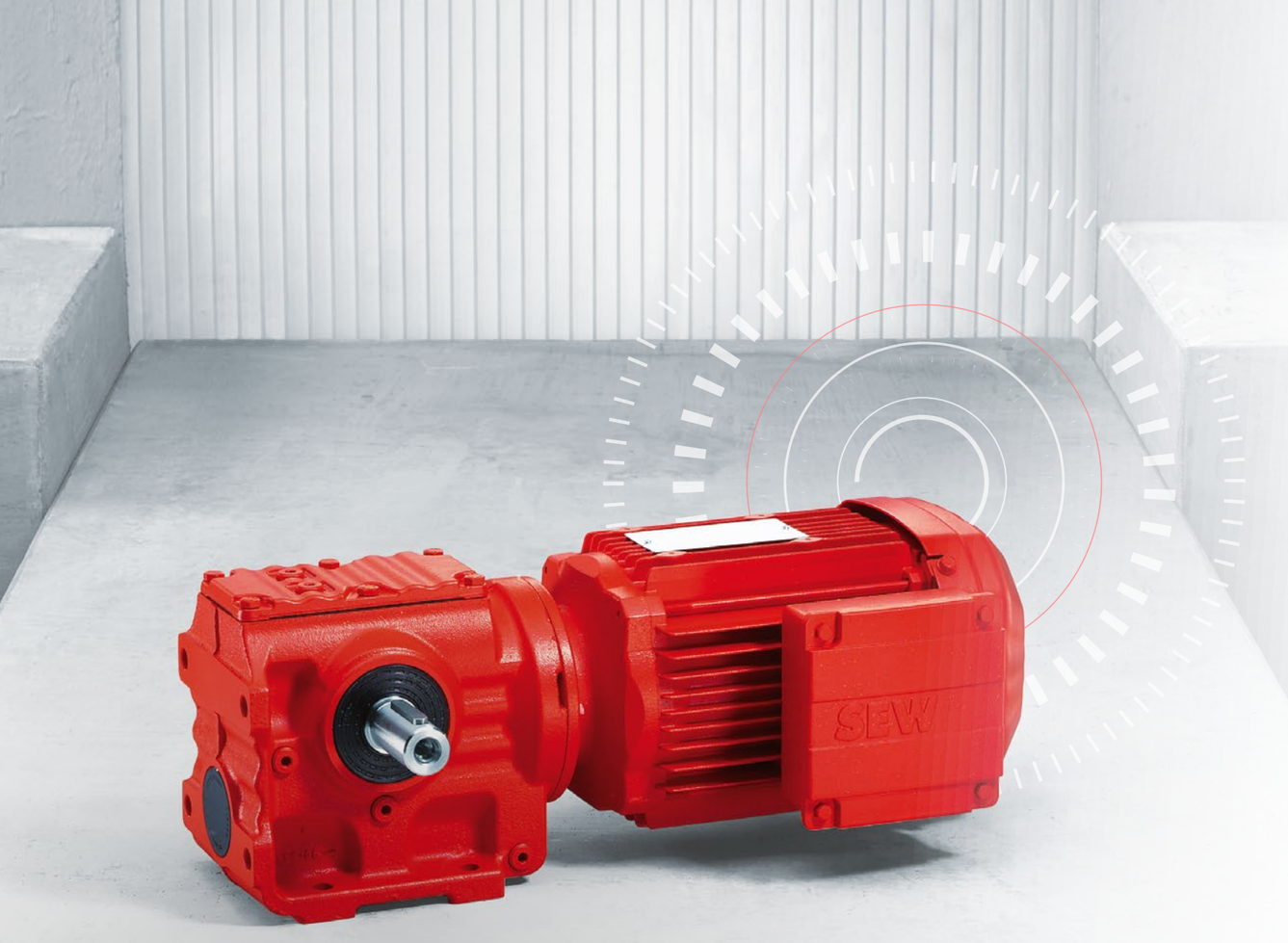
TECHNICAL DATA

F SERIES / SIZES 27 / 37 / 47 / 57 / 67 / 77 / 87 / 97 / 107 / 127 / 157

Gear unit ratio	i	3.77 – 281.71
Double gear unit reduction ratio	i	87 – 31 434
Max. output torque	Nm	130 – 20 000*
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 200

*Also with reduced backlash

CLICK TO NEXT PAGE...



LOW PROCUREMENT COSTS

LOW-NOISE OPERATION

HIGH PERMITTED OVERHUNG LOADS

REDUCED TORQUE SHOCKS

PRODUCT DESCRIPTION

While their cost-effectiveness is due to their simple design, custom coordination options for torque and speed ensure our helical-worm gear units are compact for ease of installation. Use S series helical-worm gear units as a cost-effective solution for meeting basic requirements in your machine or plant applications.

Adding in a helical gear stage means that significantly higher efficiency can be achieved than when using plain worm gear units. The linear power transmission makes these helical-worm gear units exceptionally smooth-running and low-noise. Why? Power is transmitted to the input shaft via the worm shaft and worm gear in a process that reduces torque impulses and facilitates low noise levels.

The torque range extends from 92 to 4000 Nm. For the new S..7p it is 105 Nm to 4300 Nm.

BENEFITS

Space-saving installation
thanks to custom coordination options for torque and speed in all seven sizes

High efficiency
thanks to the simple design of the helical-worm gear unit

Low-noise operation
because the linear power transmission attenuates torque impulses on the drive shaft

FEATURES

- → Much greater efficiency than plain worm gear units thanks to **helical-worm combinations**
- → Very **low-noise** operation
- → **Available designs:**
  - Foot-mounted or flange-mounted design
  - B5 or B14 flange-mounted design
  - Solid or hollow shaft
  - Hollow shaft with keyed connection, shrink disk, splining or TorqLOC®

APPLICATION

- → Stage drives
- → Adjustment drives
- → Presses
- → Rotary tables
- → Corner transfer units

TECHNICAL DATA

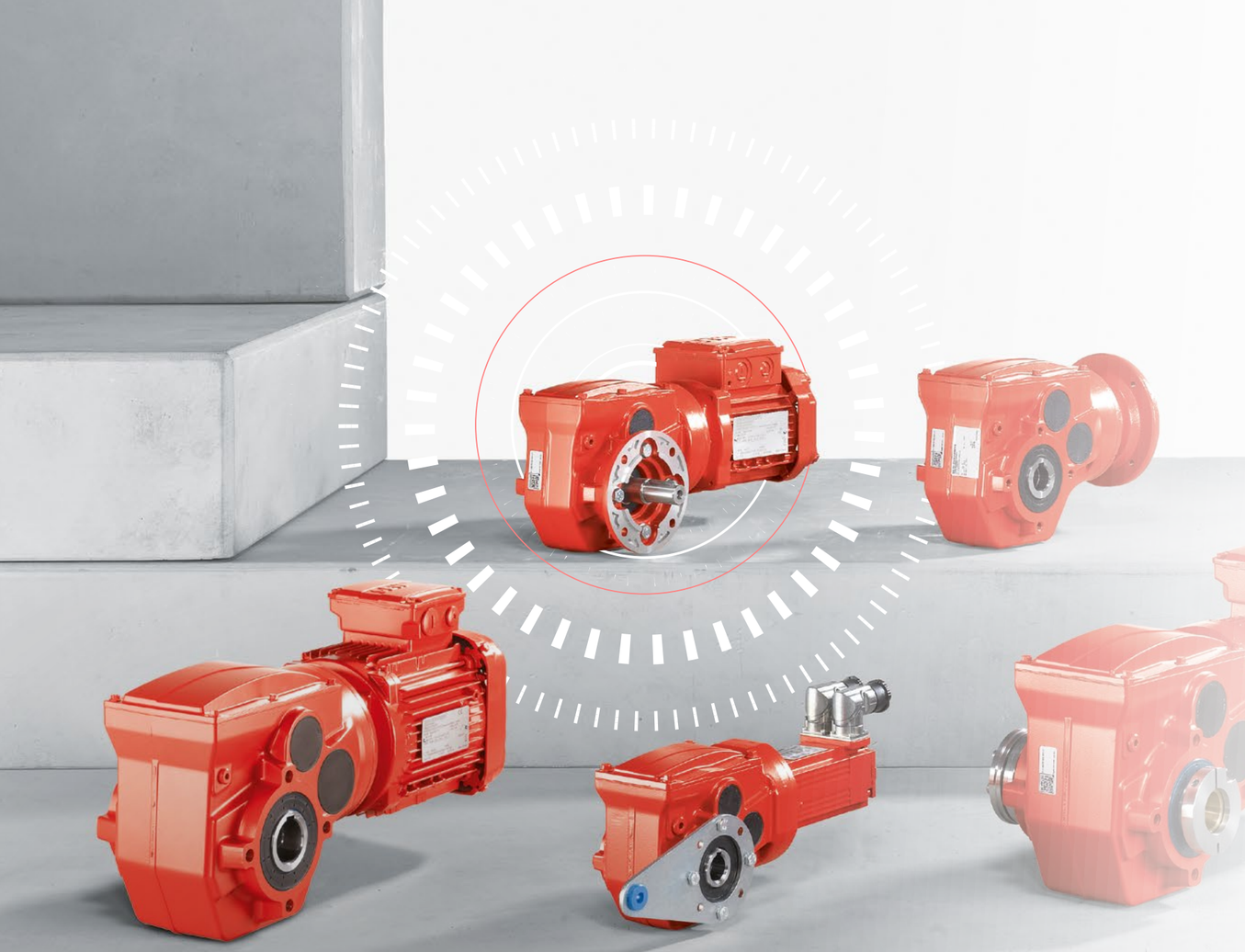
S SERIES/S..7P SERIES / SIZES 37 / 47 / 57 / 67 / 77 / 87 / 97

Gear unit ratio	i	3.97 – 288.00
Gear unit ratio – compound gear units	i	110 – 33 818
Max. output torque*	Nm	92 – 4 300
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 30

*Smaller values possible, depending on the ratio

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CLICK TO NEXT PAGE...



HIGH-SPEED

LIGHT AND COMPACT

MINIMUM FRICTION LOSS

WEAR-FREE GEAR COMPONENTS

BACK | BACK TO TABLE OF CONTENTS | NEXT | VIEW PRODUCT PAGE ONLINE

PRODUCT DESCRIPTION

Does your materials handling application require top speed from your drive, but also need a compact and light configuration? Then we recommend W series right-angle gear units – our lightweight solutions.

The stand-out feature of SPIROPLAN® right-angle gear units is their wear-free gearing. It ensures reliable power transmission and speed adjustment for your materials handling system. Thanks to this gearing, our smallest right-angle gear units deliver permitted output torques up to 600 Nm in a power range from 0.09 kW to 4 kW. The steel-steel material combination and the special tooth meshing ratio enable a short gear unit design, resulting in space-saving drive installation.

BENEFITS

Cost-effective operation
thanks to wear-free SPIROPLAN® gearing and minimized friction losses.

Lightweight and compact
thanks to the aluminum housing and the specially designed gearing.

FEATURES

- **Robust right-angle gear units:**
  - Wear-free SPIROPLAN ® gearing (steel-steel material combination) and a special tooth meshing ratio
  - Minimized friction losses, optimized mechanical efficiency, reduced energy consumption
  - Vibration-free running/operation
- Small gear ratios enable combinations with high motor power and high speeds
- Lightweight aluminum housing
- **Mounting:**
  - Identical hole spacings and shaft heights on the foot and end face support a wide range of mounting options.
- **Mounting for gear unit sizes W..10, W..20, W..30:**
  - In these sizes, all mounting positions are possible, without changing the oil quantity, as the oil fill quantity is independent of the mounting position
- **Available designs:**
  - Foot-mounted or B5 flange-mounted design
  - Solid or hollow shaft with key or shrink disk
  - Mounting of motor adapters or free input shaft (W..9)
- **Asynchronous motor mounting:**
  - For gear unit sizes W..10, W..20, W..30: Direct motor mounting
  - For gear unit sizes W..9: Motor flange mounting
- **Optionally available as:**
  - MOVIMOT® design In other words, as a right-angle gear unit with integrated frequency inverter
  - MOVI-SWITCH® design In other words, as a right-angle gear unit with integrated switching and protection function

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APPLICATION

- → Small and fast-running conveyor belts in intralogistics
- → Roller conveyors
- → Belt conveyors
- → Chip conveyors
- → Sizes W10, W20, W30:
  - Especially suitable for noise-sensitive work environments
- → Sizes W..9:
  - In shaft-mounted design especially suitable for hygienic applications in the food and beverage industry

TECHNICAL DATA

W SERIES / SIZES 10, 20, 30, 19, 29, 39, 49, 59

	Sizes	W..10	W..20	W..30	W..19	W..29	W..39	W..49	W..59
Gear unit ratio	i	6.75 – 75.00	6.75 – 75.00	6.75 – 75.00	5.90 – 167.59	4.68 – 188.47	4.72 – 210.49	7.22 – 200.76	6.76 – 213.21
Max. output torque*	Nm	30	45	69	80	130	200	400	600
Motor power range (Mounting via AM motor adapter)	kW	0.09 – 0.12	0.12 – 0.37	0.12 – 0.75	0.09 – 0.75	0.12 – 1.1	0.12 – 1.5	0.12 – 3-0	0.12 – 4.0

OVERVIEW OF INCREASES IN TORQUE FOR W..10

Gear ratio i	M amax NEW Nm	Increase %
6.57	19	+58
8.20	23	+92
10.25	28	+115
14.33	24	+9
16.50	27	+35
19.50	30	+20
27.50	27	+13
35.50	28	+12
39.00	26	+4

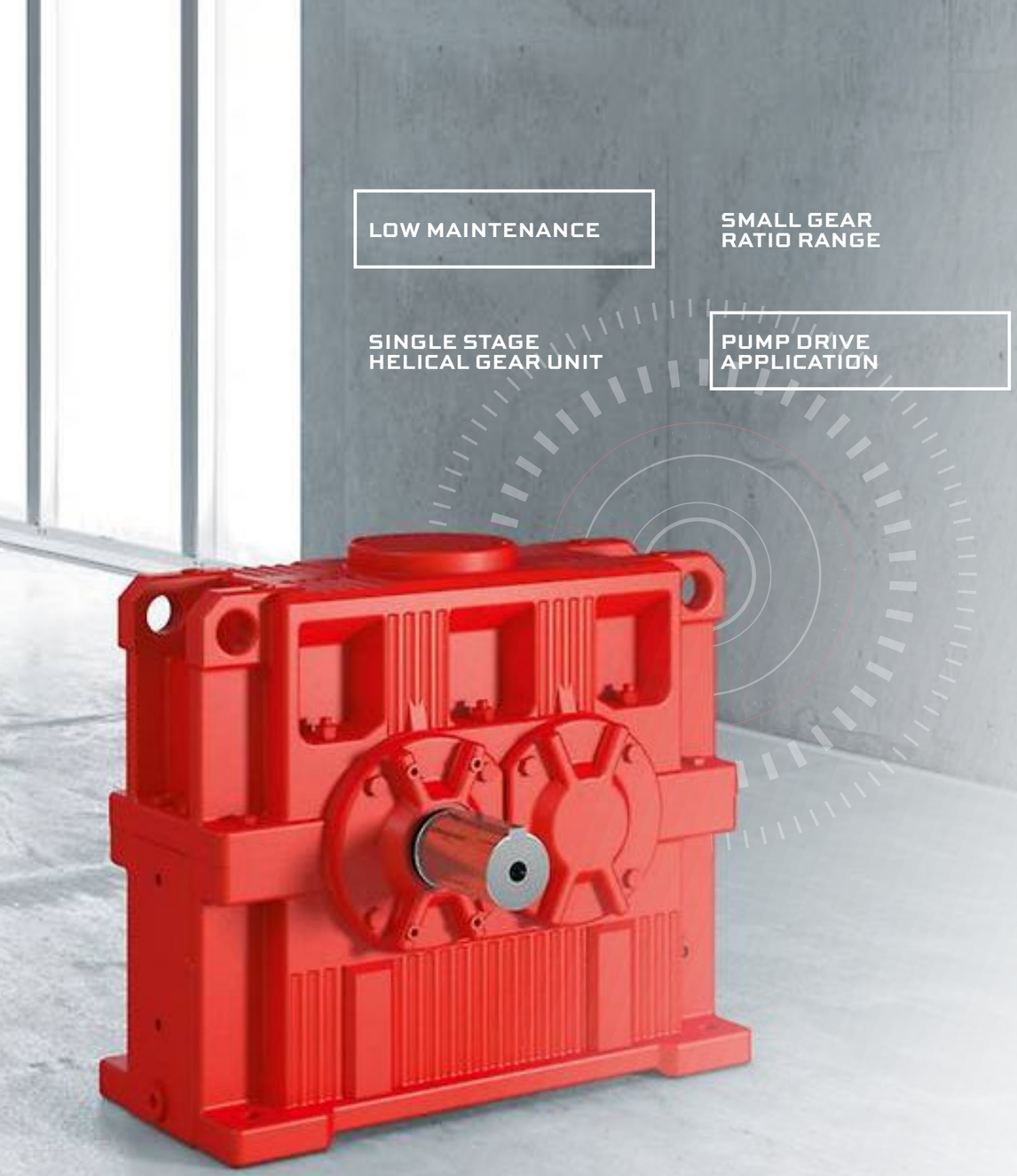
OVERVIEW OF INCREASES IN TORQUE FOR W..20

Gear ratio i	M amax NEW Nm	Increase %
6.57	24	+20
8.20	29	+45
10.25	36	+44
14.33	45	+50
16.50	38	+27
19.50	42	+20

OVERVIEW OF INCREASES IN TORQUE FOR W..30

Gear ratio i	M amax NEW Nm	Increase %
6.57	62	+55
8.20	65	+63
10.25	63	+26
14.33	69	+15
16.33	68	+13

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M1

PRODUCT DESCRIPTION

The M1..N series industrial gear units were developed especially for applications that require a small gear ratio range. This ensures that you are using the perfect helical gear unit for your application. This areas of application typical for this series are drive solutions that require foot-mounted helical gear units. You can use this gear unit for pump applications or rollers and refiners in the paper industry in particular.

As a leading industrial gear unit manufacturer, one of our main focal areas is engineering low-maintenance gear units for you. The M1..N series single-stage helical gear units are easy to remove because the steel housing is split horizontally. This means major savings on time and money in case you require service. We will also finish all of our gear units with special surface and corrosion protection as required. This allows you to use your gear units in extremely moist and/or chemically aggressive environments.

BENEFITS

Individual adaptability by mounting additional options and accessories to the gear unit

Optimized mounting dimensions because the gear unit housing is highest at the center

Simple maintenance due to a parting line that makes the housing easy to remove for servicing

FEATURES

- → **12** sizes
- → **Foot-mounted** helical gear units
- → **Oil heater** available
- → **Sealing system** for harsh conditions
- → **Cooling** with fan or cooling coil optional
- → **Rigid housing design** for thermal efficiency and stability
- → **Optional** accessories available

APPLICATION

The low-maintenance M1 series helical gear units provide the optimum basis for many of our customized application solutions with small gear ratios. In the paper industry, helical gear units are used for:

- → Pump drives
- → Refiners
- → Hydroelectric power plants

TECHNICAL DATA

Gear unit type	Stages	Gear ratio	Nominal torque MN2 kNm
Helical gear unit M1..N	1-stage	1 – 7.1	0.5 – 248



APPLICATIONS

ROTARY KILN

BALL MILL

SEGMENTED GIRTH GEAR

PRODUCT DESCRIPTION

Traditional girth gears generally consist of two to four segments and are assembled together for processing. This requires extremely large and expensive machines for production, handling and heat treatment. Besides this, the size of component parts creates disadvantages with regard to casting quality and heat treatment.

The innovative girth gears from SEW-EURODRIVE are always divided into several identical segments. This means the component parts are short and easy to handle. By combining the latest materials engineering and state-of-the-art manufacturing methods, the SEW-EURODRIVE girth gears avoid the disadvantages of the traditional manufacturing process and create new benefits.

SEW-EURODRIVE only uses austempered ductile iron (ADI) for the production of the girth gears. The classical materials cannot match its tensile strength.

BENEFITS

Minimal vibration
due to the precise pitch accuracy of the segmented girth gears according to ISO 8 (AGMA 8)

Simple exchange
because the division into segments means the entire ring does not need to be disassembled.

Longer service life
because due to proper dimensioning and lubrication, ADI girth gears are practically wear-free

FEATURES

- Practical handling of **individual segments**
- **Optimized quality assurance** due to minimal size
- **Precise pitch accuracy** according to ISO 8 (AGMA 8)
- **Simple** exchange
- **Low** weight
- **Longer service life** with ADI
- **Short** delivery time

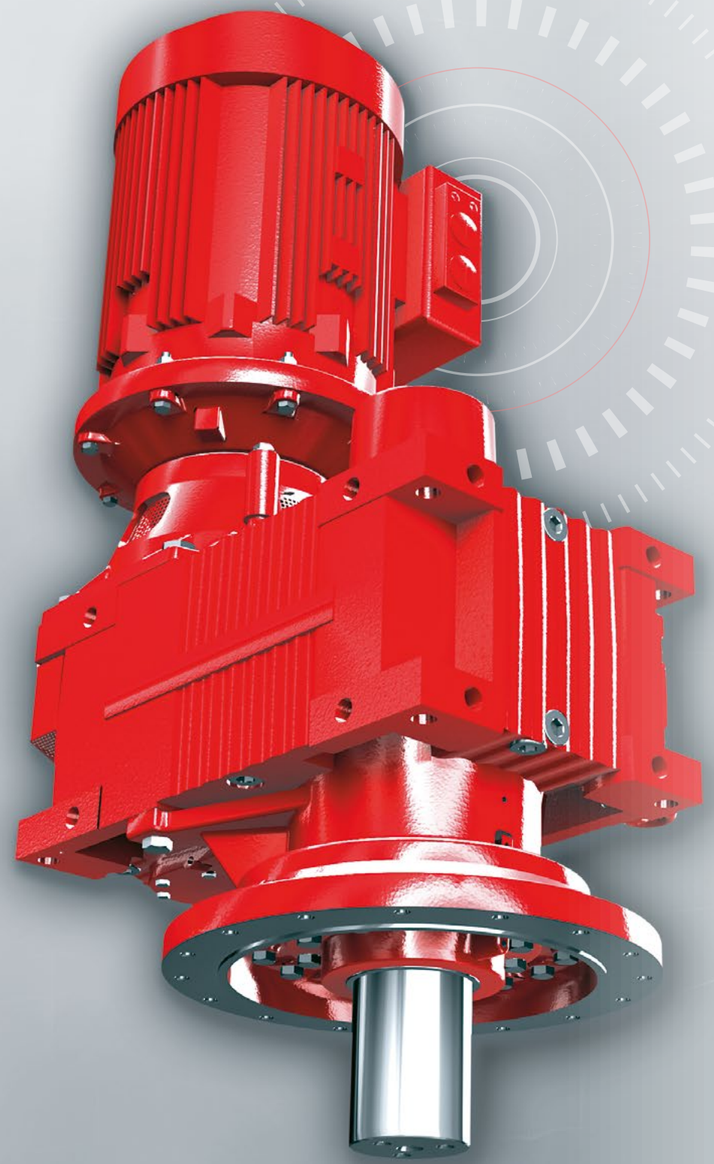
APPLICATION

Large, rotating systems such as Dryer, Rotary kilns or Horizontal mills in the:

- Chemical industry
- Environmental industry
- Timber industry
- Paper industry
- Steel industry
- Mining industry
- Raw materials industry

TECHNICAL DATA

Girth gear pitch diamete	Maximum width	Maximum power	Maximum pitch line velocity	Girth gear module	Calculated
Up to 16 m (larger diameters are available after further discussion)	600 mm	4000 kW per pinion	6 m/s	20, 25, 30, and 40 mm	according to ISO standard 6336 (AGMA on request)



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MC/ML MIXERS

PRODUCT DESCRIPTION

In process engineering plants, large axial and radial forces occur at the agitator shaft during agitating processes. Traditional designs solve this problem with seperate, external bearings that take on the function of the agitator shaft bearings. However, in many cases this solution has proved very cost-intensive.

SEW-EURODRIVE's new "EBD" (Extended Bearing Distance) concept offers stronger bearings within the gear unit itself, which means that in many cases seperate bearings are no longer required in the agitator or an oversizing of the gear unit can be avoided.

The high-torque industrial gear units of the MC series can be used for the reliable operation of mixers, agitators and surface aerators. Likewise, the powerful and stiff bearings are suitable for absorbing forces that occur in drives for wet, dry and hybrid cooling towers. the concept is supplemented by an optional drywell seal, which reliably prevents oil leakage at the output shaft and standardized mounting flanges.

BENEFITS

Powerful
Output bearings with high oad-bearing capacity and reinforced output shaft

Available
Short delivery times due to stocked components and the unique, international assembly network of SEW-EURODRIVE

Flexible
Different output flange dimensions can be adapted to the gear unit using clear interfaces

FEATURES

- → **Efficient** helical and bevel-helical gearing
- → **Hollow or solid** output shaft
- → **Spherical bearing** with paired taper roller bearings
- → **Radial labyrinth** sealing system
- → Case hardened, **helical steel gears** finished to AGMA 12 (ISO 6, DIN6)
- → **Gray cast** iron housing
- → **Splash and pressure** lubricated
- → **Modular construction** – fast delivery and global availability

APPLICATION

Mixing and aerating applications

- → Wastewater treatment

TECHNICAL DATA

Output torque capacity	Input HP capacity	Ratios	Reductions
570,000 lb-in	1400 HP	from 7:1 to 112:1 with single unit > 112:1 with compound units	Double and triple reductions within single unit

HIGH TORQUE RANGE

POWERFUL AND SPACE-SAVING INDUSTRIAL PLANETARY GEAR UNIT

COMBINE FLEXIBILITY

NOMINAL TORQUE RATING TO 5200KNM



LARGE XP

PRODUCT DESCRIPTION

The industrial gear units XP series are extremely space-saving planetary gear units for very high torque ratings up to 5 200 kNm. They enable specific drive solutions for applications in the high-performance area. An additional advantage: They are able to very flexibly customize the amount of stages and the individual gear ratios to your application. Depending on the application, it is important for users and outfitters of systems to position gear units and motors separately from each other. We have designed our XP series as a stand-alone gear unit with a free input shaft for such purposes.

Do you need a primary gear unit? No problem. Select a gearmotor from our comprehensive modular concept. We will attach it directly to the planetary gear unit for you. Or you can combine the XP gear unit with an industrial gear unit from the X series. You need even more power? No problem. We offer you project-specific industrial gear units from the XP series whose performance surpasses the stated torque range of 5 200 kNm.

BENEFITS

Combine flexibly
with the adapter mounting for electric motors, hydraulic motors, gearmotors and industrial gear units

Save on installation space
thanks to the compact construction and the high performance

Increase performance
thanks to the robust technology and the variable cooling system

FEATURES

- → **Stand-alone** industrial gear unit platform with 13 sizes
- → Suitable for **highest torques**
- → **Very compact** design
- → **High** torsional stiffness
- → **Free input shaft or direct mounting** of motors and primary gear units
- → Various **output shaft variants**
- → Various **predefined options** and additional designs
- → **Customer-specific** adaptations possible

APPLICATION

The powerful and space-saving industrial planetary gear units of the XP series can be applied wherever maximum torque ratings are required for the movement of very large quantities.

- → Materials handling technology
- → Raw materials processing
- → Timber industry
- → Paper industry
- → Food industry
- → Mixers and agitators

TECHNICAL DATA

Gear unit type	Stages	Gear ratio i	Nominal torque MN2 kNm
Planetary gear units XP..:	2-, 3- and 4-stage	22 – 3 600*	600 – 5 200

*In combination with primary gear units from our SEW-EURODRIVE modular concept for standard gear units. We can offer you customized product solutions on request.

P2.e SERIES

PRODUCT DESCRIPTION

The P2.e series is available for the torque range 24.8 kNm to 124 kNm. These two- or three-stage planetary gear units cover gear ratios of 15.2 to 332. With its compact design, flexibility, and high thermal limit rating, this gear unit is the ideal solution for continuous heavy-duty applications where space is tight.

The combination of the high torque density and compact design means the gear unit can be used in applications where space is tight. To also achieve a high thermal limit rating, there is the option of an integrated fan in the motor interface. The fan aspirates air radially, accelerates it, and generates a cooling stream of air with a high flow rate. Besides its high power density, the P2.e series therefore also has a "best-in-class" thermal limit rating.

BENEFITS

Maximum efficiency
because the P2.e series of planetary gear units has a very high thermal limit rating and therefore requires no additional external cooling

Compact design
that ensures P2.e planetary gear units can make the most of tight installation spaces for machinery and systems

High degree of flexibility
thanks to the potential for combination with our modular system of motors and diverse range of options for input and output sides, opening up a great degree of freedom in machine design

Simple machine connection
thanks to a range of different mounting types and output shafts

FEATURES

- High torque density for tight spaces
- Lightweight construction
- High thermal limit rating
- Coaxial design
- High variance at input
- High torsional rigidity
- Diverse optional equipment & options

APPLICATION

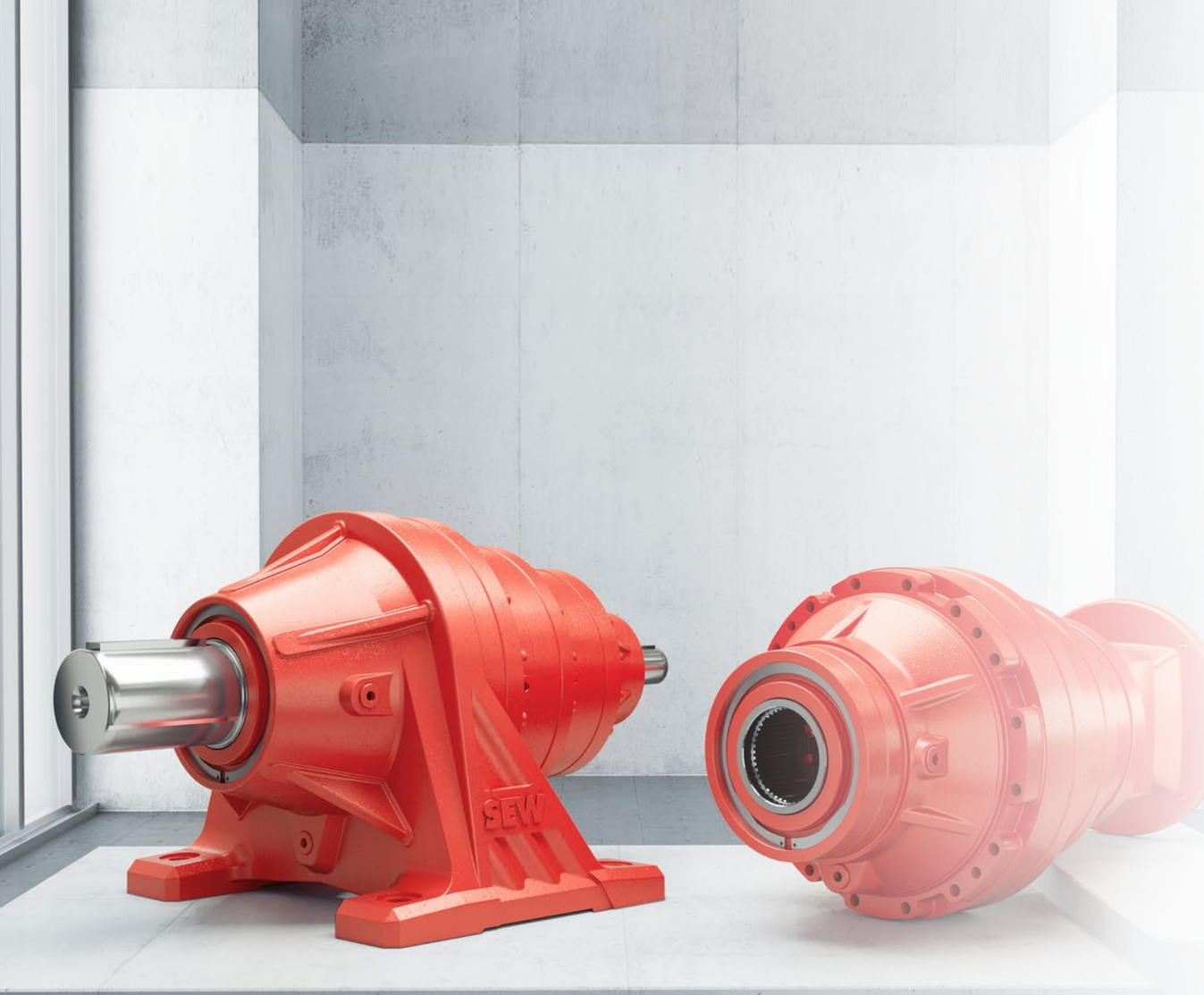
The unique benefits and specific features of the new generation P2.e make it possible to use these planetary gear units and gearmotors in applications in a variety of industries:

- Crushers
- Shredders
- Screw presses
- Ring pan mixers
- Batch mixers
- Slewing gears

TECHNICAL DATA

Planetary gear unit type	Stages	Gear ratio i	Nominal torque M_{N2}
P2P.002e - 052e	2	15.2 - 39.2	24.8 - 124 kNm
P3P.002e - 052e	3	51.7 - 332	24.8 - 124 kNm

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PPK SERIES

PRODUCT DESCRIPTION

Compact – reliable – flexible: The PPK planetary gear units complement our industrial gear units product line in the torque load range under the proven P series. In the sizes 010 and 017 the gear unit is available for the torque range 10 700 Nm to 17 650 Nm. As a three-stage design or with primary gear motor, it covers a gear ratio range from 65 to 10 650. The load is distributed across multiple planet gears, resulting in a significantly higher power density and thus enabling smaller dimensions compared to other gear unit types. The PKK series planetary gear units are therefore perfect for all heavy-duty applications that require a robust, compact design and high gear ratios.

In addition to gear unit design such as flange and foot mounting, the variance at the input and output offers great flexibility for the user. On the output end, a solid shaft with key and a splined solid shaft are available. As a hollow shaft gear unit, you can choose between a splined hollow shaft and a hollow shaft with shrink disk. On the input gear end, the motor connection is made either via an exposed shaft-end or a motor adapter. Access to the complete modular motor system from SEW-EURODRIVE with extensive options such as brakes and encoders also offer further degrees of freedom.

BENEFITS

Speed
with short delivery times thanks to local assembly and optimized processes

Space spaving
thanks to a more compact design than that of other gear unit types with the same power rating

Reliability
thanks to gearing with infinite fatigue strength based on DIN 3990 (a design with finite fatigue strength is also possible).

Flexibility
thanks to the ability to freely combine the gear units with the DR.. modular motor system from SEW-EURODRIVE and the corresponding frequency inverters

APPLICATION AREAS

Applications in practice: the specific benefits of the PPK series make it possible to use this planetary gear unit in a wide variety of industries and applications.

- → Recycling industry
- → Water/wastewater industry
- → Mining and cement industry
- → Food industry
- → Chemical industry
- → Rubber and plastic industry



PPK SERIES

PPK.010 SELECTION TABLE

The following table lists the nominal torque rated for endurance strength and the nominal torques taking into account the service life factor for the individual gear ratios.

fLC = (Lh x n2) / 1000

→ fLC = Service life factor
→ Lh = Required service life (h)
→ n2 = Speed at output shaft (min-1)

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.010	**65.67**	13 627	12 645	12 469							**11 100**	22 200
	71.37	13 627	12 645	12 469							**11 100**	22 200
	77.56	13 627	12 645	12 469							**11 100**	22 200
	78.55	13 627	12 645	12 469							**11 100**	22 200
	84.29	13 112	12 124	11 904							**10 980**	21 960
	85.37	13 627	12 645	12 469							**11 100**	22 200
	92.78	13 112	12 124	11 904							**10 980**	21 960
	93.97	13 627	12 645	12 469							**11 100**	22 200
	100.5	13 627	12 645	12 469							**11 100**	22 200
	102.1	13 112	12 124	11 904							**10 980**	21 960
	109.3	13 627	12 645	12 469							**11 100**	22 200
	112.4	12 658	11766	11 492							**10 600**	21 200
	118.7	13 112	12 124	11 904							**10 980**	21 960
	120.3	13 627	12 645	12 469							**11 100**	22 200
	130.7	13 112	12 124	11 904							**10 980**	21 960

1) Gearing with infinite fatigue strength (based on DIN 3990)

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PPK SERIES

PPK.010 SELECTION TABLE

The following table lists the nominal torque rated for endurance strength and the nominal torques taking into account the service life factor for the individual gear ratios.

fLC = (Lh x n2) / 1000

→ fLC = Service life factor
→ Lh = Required service life (h)
→ n2 = Speed at output shaft (min-1)

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.010	**146.5**	13 627	12 645	12 469							**11 100**	22 200
	153.9	13 627	12 645	12 469							**11 100**	22 200
	159.2	13 627	12 645	12 469							**11 100**	22 200
	167.3	13 112	12 124	11 904							**10 980**	21 960
	173.0	13 112	12 124	11 904							**10 980**	21 960
	175.2	13 627	12 645	12 469							**11 100**	22 200
	184.1	12 658	11 766	11 492							**10 600**	21 200
	190.4	13 112	12 124	11 904							**10 980**	21 960
	209.6	12 658	11 766	11 492							**10 600**	21 200
	224.3	13 627	12 645	12 469							**11 100**	22 200
	243.7	13 112	12 124	11 904							**10 980**	21 960
	268.3	12 658	11 766	11 492							**10 600**	21 200
	326.8	13 627	12 645	12 469							**11 100**	22 200
	355.2	13 112	12 124	11 904							**10 980**	21 960
	390.9	12 658	11 766	11 492							**10 600**	21 200

1) Gearing with infinite fatigue strength (based on DIN 3990)

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PPK SERIES

PPK.017 SELECTION TABLE

The extended gear ratio range with primary gear unit (motor) is shown below:

→ Bevel-helical gear unit–planetary gear unit (motor) PPK..KAF i = 685 – 10 700
→ Helical gear unit–planetary gear unit (motor) PPK..RF i = 625 – 10 700

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.017	**65.67**	22 107	20 520	20 242							**18 500**	37 000
	71.37	22 107	20 520	20 242							**18 500**	37 000
	77.56	22 107	20 520	20 242							**18 500**	37 000
	78.55	22 107	20 520	20 242							**18 500**	37 000
	84.29	21 495	19 875	19 515							**18 000**	36 000
	85.37	22 107	20 520	20 242							**18 500**	37 000
	92.78	21 495	19 875	19 515							**18 000**	36 000
	93.97	22 107	20 520	20 242							**18 500**	37 000
	100.5	22 107	20 520	20 242							**18 500**	37 000
	102.1	21 495	19 875	19 515							**18 000**	36 000
	109.3	22 107	20 520	20 242							**18 500**	37 000
	112.4	20 793	19 314	18 850							**17 400**	34 800
	118.7	21 495	19 875	19 515							**18 000**	36 000
	120.3	22 107	20 520	20 242							**18 500**	37 000
	130.7	21 495	19 875	19 515							**18 000**	36 000

1) Gearing with infinite fatigue strength (based on DIN 3990)

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PPK SERIES

PPK.017 SELECTION TABLE

The extended gear ratio range with primary gear unit (motor) is shown below:

→ Bevel-helical gear unit–planetary gear unit (motor) PPK..KAF i = 685 – 10 700
→ Helical gear unit–planetary gear unit (motor) PPK..RF i = 625 – 10 700

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.017	**146.5**	22 107	20 520	20 242							**18 500**	37 000
	153.9	22 107	20 520	20 242							**18 500**	37 000
	159.2	22 107	20 520	20 242							**18 500**	37 000
	167.3	21 495	19 875	19 515							**18 000**	36 000
	173.0	21 495	19 875	19 515							**18 000**	36 000
	175.2	22 107	20 520	20 242							**18 500**	37 000
	184.1	20 793	19 314	18 850							**17 400**	34 800
	190.4	21 495	19 875	19 515							**18 000**	36 000
	209.6	20 793	19 314	18 850							**17 400**	34 800
	224.3	22 107	20 520	20 242							**18 500**	37 000
	243.7	21 495	19 875	19 515							**18 000**	36 000
	268.3	20 793	19 314	18 850							**17 400**	34 800

The extended gear ratio range with primary gear unit (motor) is shown below:

→ Bevel-helical gear unit–planetary gear unit (motor) PPK..KAF: i = 675 – 10 700
→ Helical gear–planetary gear unit (motor) PPK..RF: i = 560 – 10 700

1) Gearing with infinite fatigue strength (based on DIN 3990)

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EC DRIVES

PRODUCT DESCRIPTION

Our ECDriveS® is a DC drive with 40 W continuous power and up to 100 W dynamic power that is optimized for the typical power ranges of roller conveyors used in light-duty materials handling technology. ECDriveS® units are remarkable for not only their ease of use—just connect them and you're done—but also their adaptability. They are extremely easy to integrate and start up, and once operational they exhibit excellent durability and long service lives.

The ECDriveS® drive system rounds out our broad product portfolio of standard gearmotors, motor starters and decentralized drives for intralogistics in the low power range.

BENEFITS

Save time
You can easily order the drive system, the driven roller and the gearmotor from just a single supplier: SEW-EURODRIVE

Implement positioning tasks easily
With the integrated encoder in ECDriveS®

Future-proof networking
With Ethernet

More than a market standard
ECDriveS® offers higher performance and overload capacity than comparable solutions

Your choice of control options
Centralized control via a PLC or decentralized, intelligent handling logic for zero pressure accumulation and much more

FEATURES

- Our ECDriveS® units are drives with 40 W continuous power and more than 250% overload capacity. They combine a sturdy planetary gear unit, which is supported on both ends, and an efficient permanent magnet motor (BLDC).
- The integrated encoder allows for precise speed control, and controlled brake ramps let you position the material precisely and independent of the load.
- A thermistor is implemented to protect the motor, meaning you always know the current motor temperature.
- An electronic nameplate allows you to set up the drives automatically. No other system is this simple and easy. The motor can be controlled via PROFINET IO, Ethernet IP, Modbus TCP, EtherCAT® or with binary control. I/O modules can be used to expand the drive system.

APPLICATION

- The units are suitable for all light-duty handling tasks with S1 operation and up to 40 W.

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EC DRIVES

TECHNICAL DATA

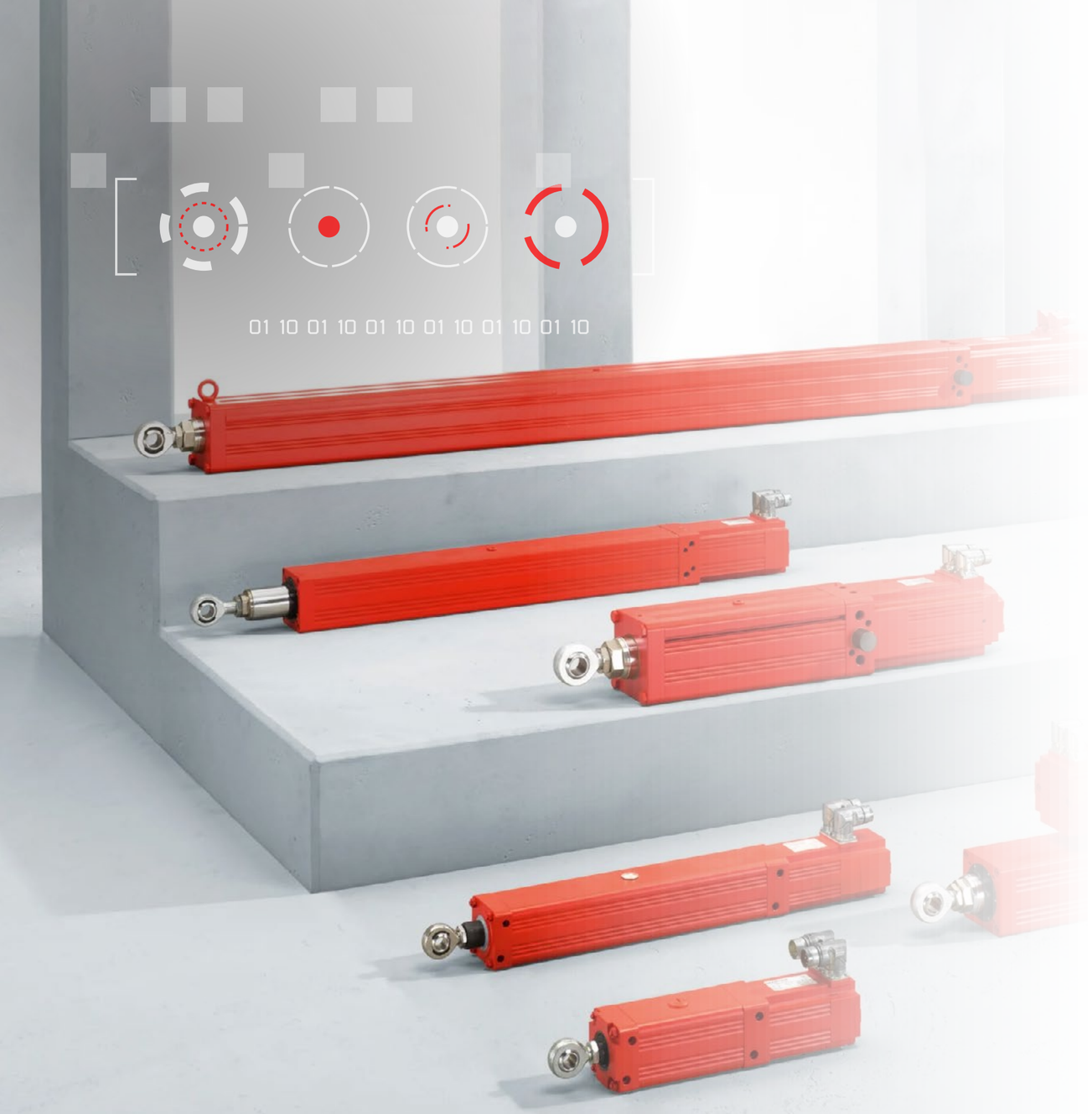
GEARMOTOR

	Driven roller, ECR-type ECDriveS®	Gearmotor, ECG-type ECDriveS®
Number of gear unit ratios i	11	9
Max. velocity	0.04 - 5 m/s	8.5 - 645 rpm
Max. accelertion torque Nm	9.6	14.3
Max. brakeaway torque Nm	21	32
Nominal current A	2.5	
Maximum current A	8	
Degree of protection	IP54 (IP66 optional)	
Temperature range	-10 - 40 °C (-30 °C optional)	

ELECTRONICS

	Direct fieldbus control, ECC-DFC-type ECDriveS®	Direct binary control, ECC-DBC-type ECDriveS®
Nominal voltage V	24	
Communication	Ethernet protocols: PROFINET, EtherNet/IP™, Modbus/TCP, EtherCAT®	3 DI + error output
Configuration	ECDriveS® PC-Tool ECShell	DIP switch 32 speeds / 16 ramps
Functions	Precise ramps ▪ Positioning ▪ Zero pressure accumulation ▪ (ZPA), FlexZone, merger, tracking Torque-on-demand ▪ Automation configuration ▪ Automatic sensor recognition ▪ Diagnostics	
Degree of protection	IP54	IP20

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ELECTRIC CYLINDER OF THE CMS.. SERIES

PRODUCT DESCRIPTION

The interesting alternative to pneumatic or hydraulic cylinders: electromechanical electric cylinders of the CMS.. series. With patented oil bath lubrication, they deliver precise and reliable linear movement with maximum dynamics. Whether via direct motor mounting or when mounted via an adapter.

DEPENDING ON REQUIREMENT: STANDARD OR MODULAR

Applications with linear movement often place high demands on the travel profile. This is why you should implement intelligent drive systems and combine our energy efficient electric cylinders with our intelligent inverters.

Your benefits: Drive systems that easily enable different travel profiles and offer a high level of positioning flexibility, new programming options, power control and a diagnostics function. For reliable implementation of your production processes.

Our CMS.. standard series enables quick and direct motor mounting. It is available in 3 motor sizes for axially serial applications. Equipped with patented oil bath lubrication which considerably enhances the service life of the CMSB.. generation electric cylinders.

The CMSM.. modular series is available in addition to the standard design. Also equipped with the patented oil bath lubrication, the linear unit can be simply attached to our CMP.. series synchronous servomotors using an adapter. The decisive advantage: Extremely compact drives with the full range of functions offered by the CMP.. modular motor system.

Regardless of whether you order the axially parallel or serial configuration of the modular CMSM.., we will supply the right adapter.

Only half the solution without an inverter? In that case, combine our electric cylinders with the right inverter technology.

BENEFITS

Long service life
The patented oil bath lubrication means that the linear unit is low maintenance and reduces wear to a minimum

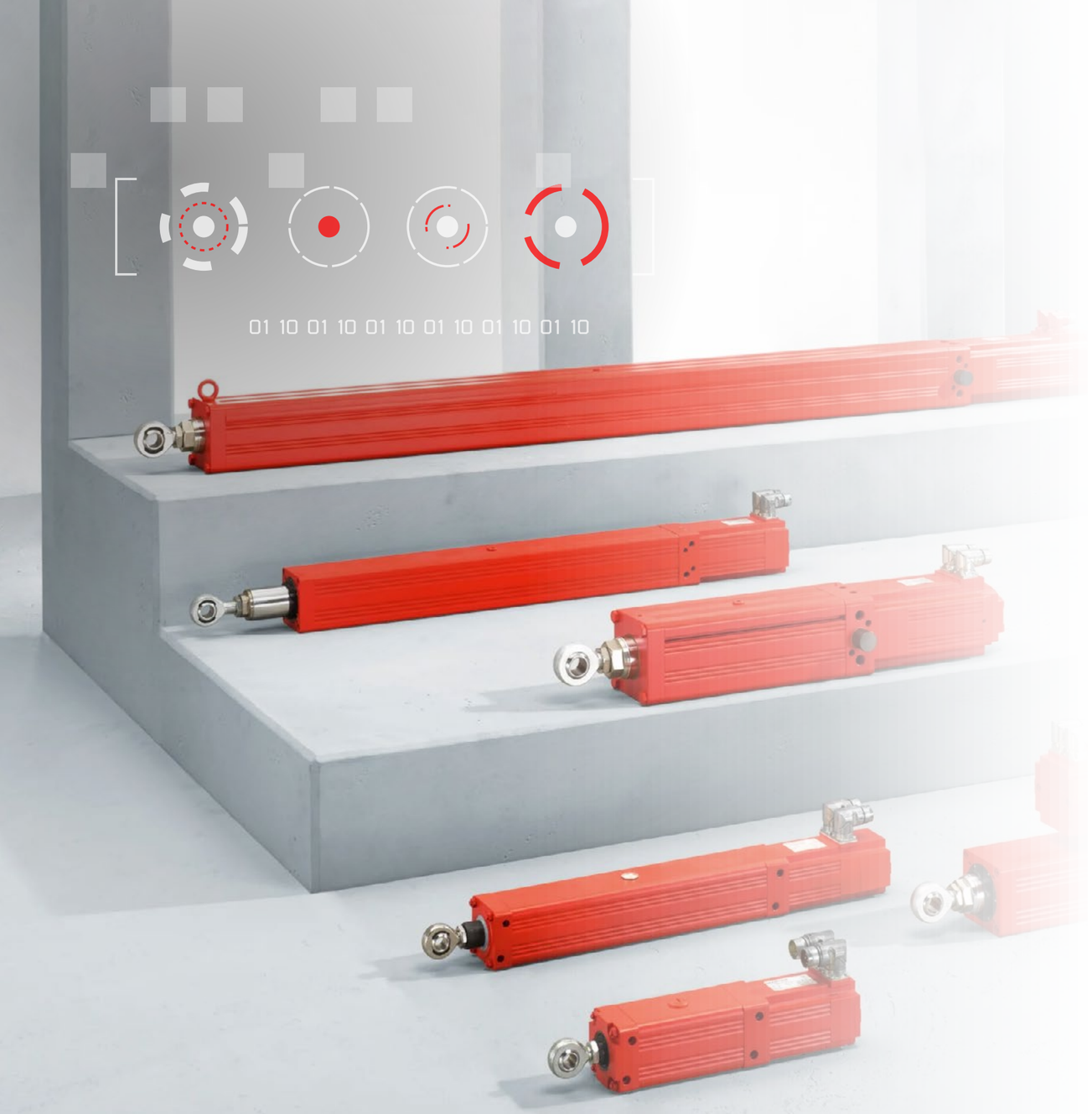
High power density
The thermally conductive oil bath enhances the temperature compensation between the heat source and the heat dissipating component parts

Fast acceleration
The permanent magnet rotors ensure a power increase that is five times faster than pneumatic cylinders

Reduced costs
Energy provision not necessary which thus saves energy costs. What's more, the compact design reduces the production area

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ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

PROPERTIES

CMSB50 – 71 SERIES WITH OIL BATH LUBRICATION

- → Patented maintenance-free oil bath lubrication (lubrication for life)
- → Very high thermal power density
- → Very low-noise operation
- → Very small working strokes possible (< 1 mm)
- → Integrated ball screw drive or planetary roller screw drive
- → Smooth, hard chrome-plated piston rod
  for special requirements at certain ambient conditions, such as in humid or dusty environments
- → Integrated locking device for lifting rod (torque arm)
- → Also available as brake servomotor with 24 V holding brake
- → Resolver feedback or with absolute encoder
- → Optional 24 V forced cooling fan
- → Food grade lubricant as an option
- → Integrated water cooling
- → Various installation options



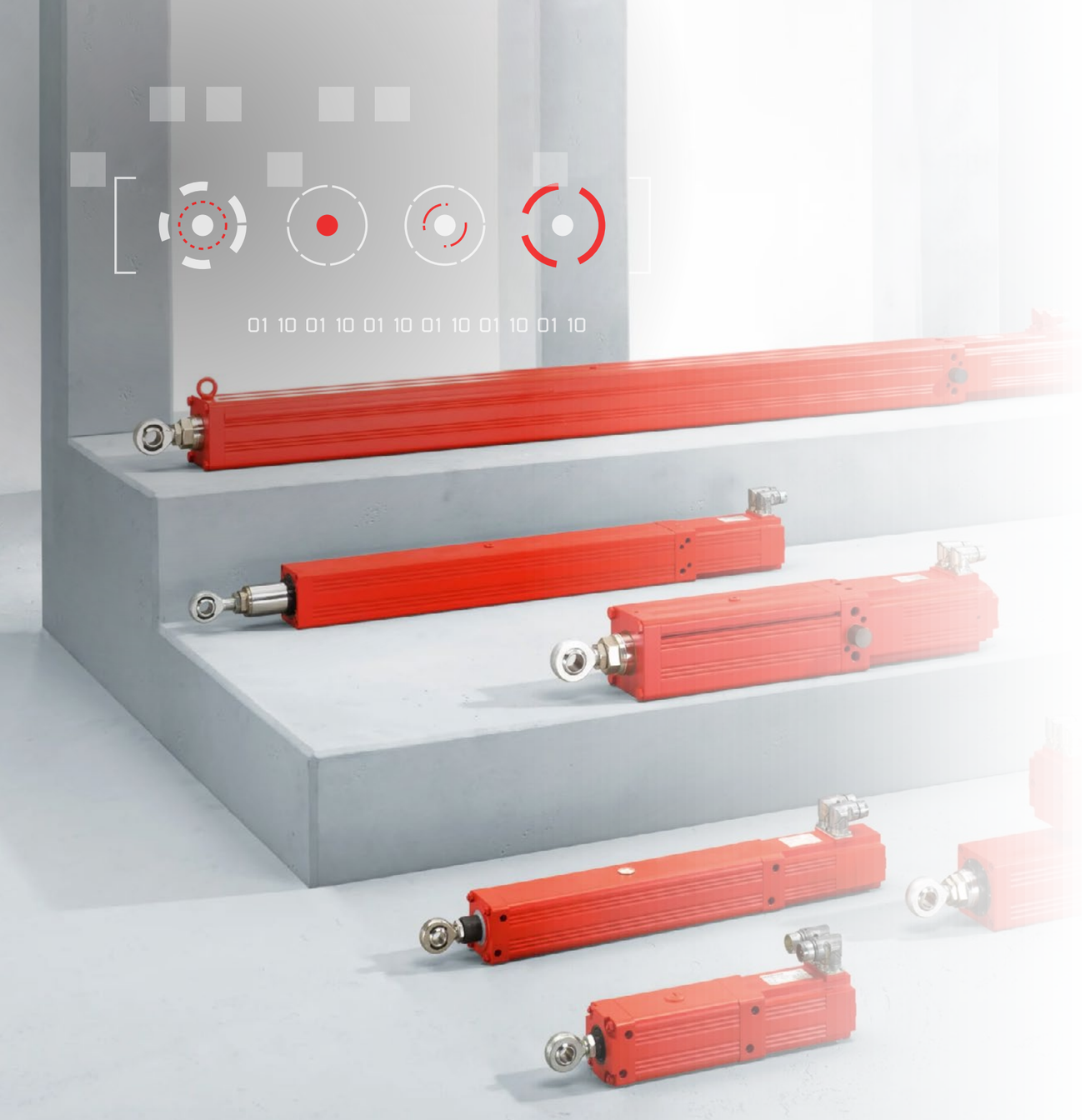
CMS71 SERIES WITH GREASE LUBRICATION



- → Equipped with permanent magnet rotors
- → Precise, powerful, and fast
- → Integrated ball screw drive or planetary roller screw drive
- → Also available as brake servomotor with 24 V holding brake
- → Resolver feedback or with absolute encoder
- → Food grade lubricant as an option

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ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSB50

ELECTRICAL DATA

Type	CMSB50S	CMSB50M	CMSB50L
Max. torque Nm	5.2	7 [1)]	7 [1)]
Standstill torque Nm	1.3	2.4	3.3

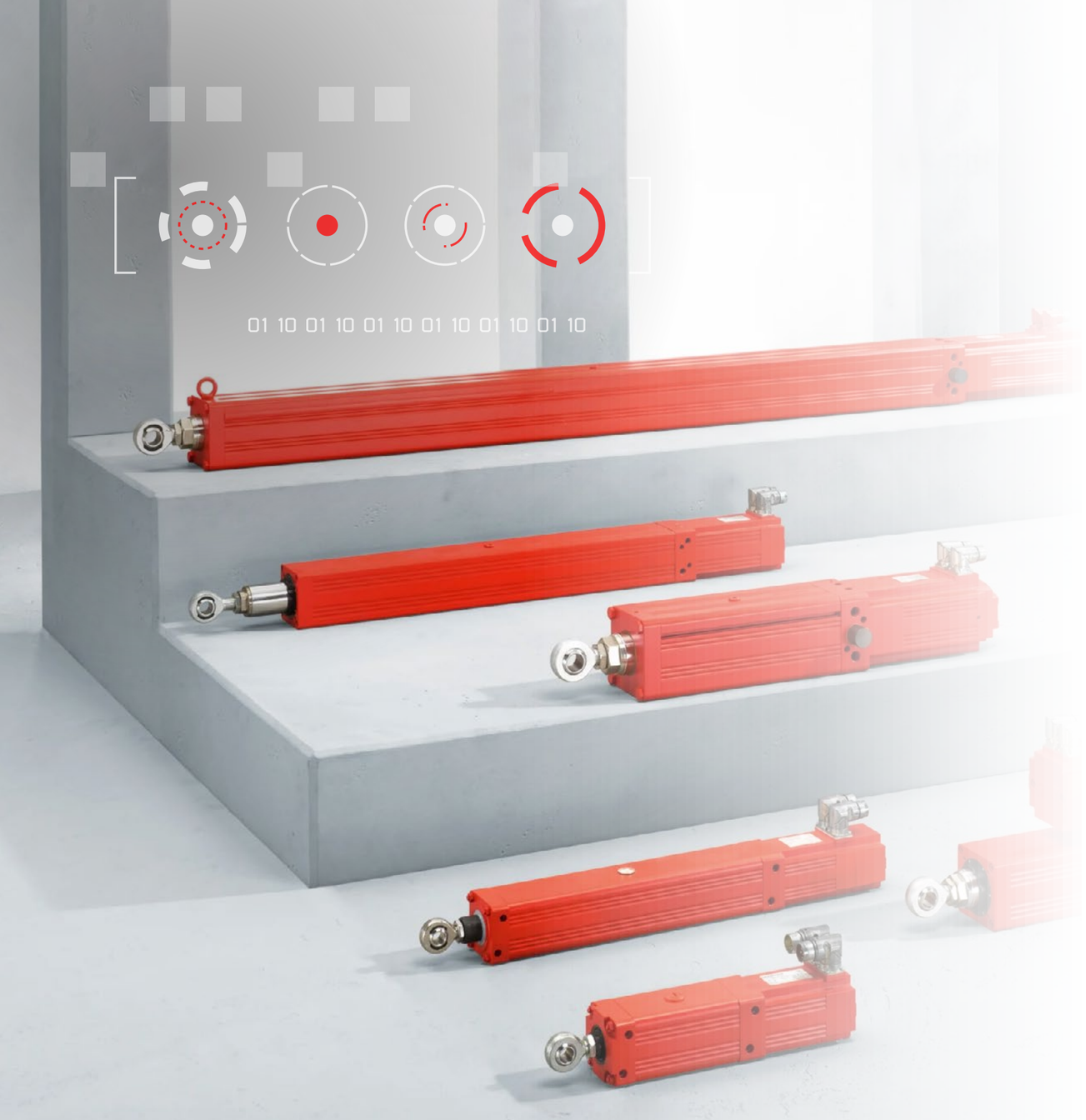
MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT 20x5	KGT 20x5	KGT 20x5
Max. continuous feed force N	1,200	2,200	2,200
Peak feed force N	5,300	8,000	8,000
Stroke lengths mm	70 / 100 / 150 / 200 / 300 / 400 /600		
Max. speed mm/s	375	375	375

1) Maximum permitted torque

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ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSB63

ELECTRICAL DATA

Type	CMSB63S	CMSB63M
Max. torque Nm	11.1	11.1 [1]
Standstill torque Nm	2.9	5.3

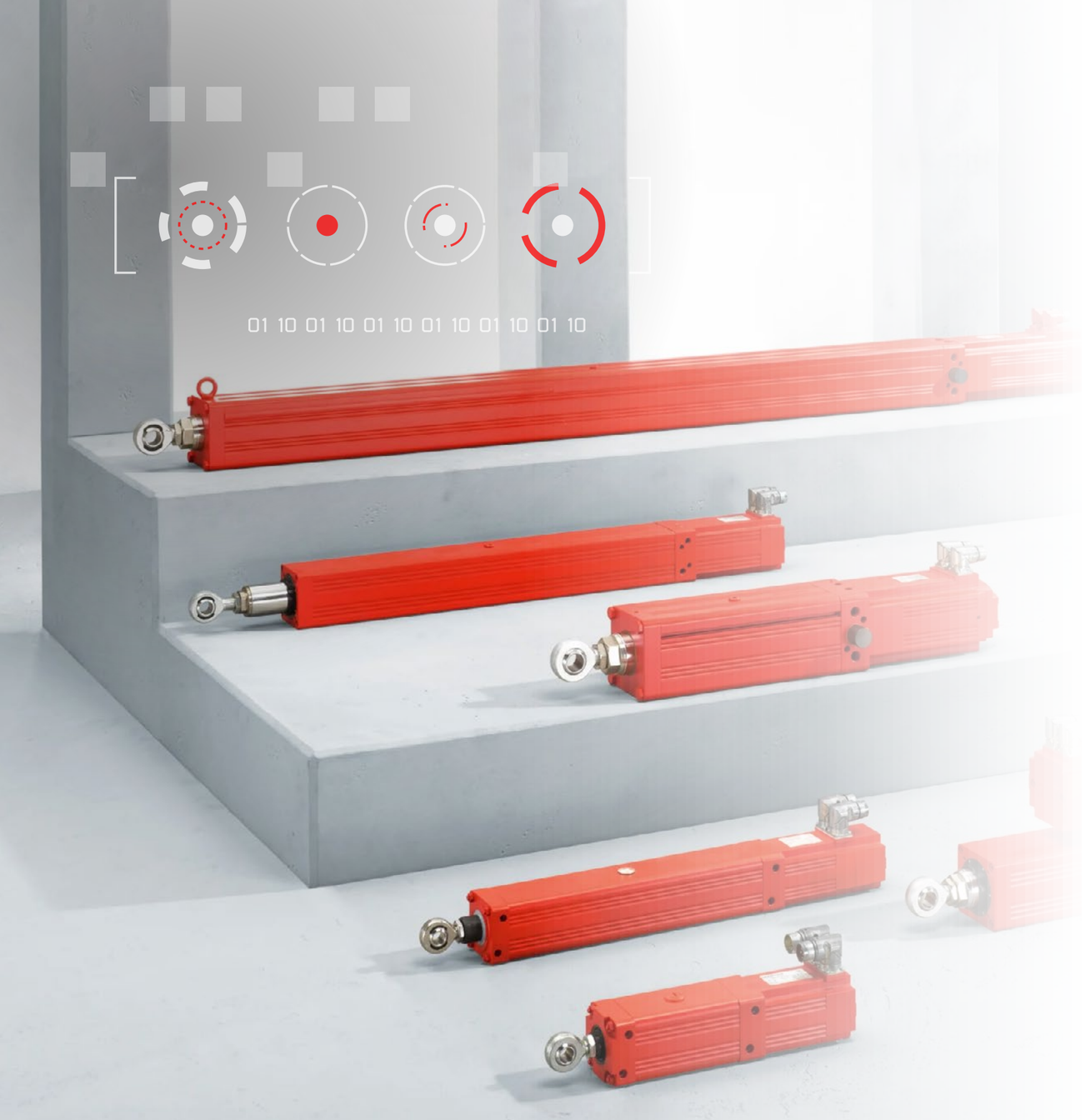
MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm	
Spindle type	KGT 25x6	KGT 25x6
Max. continuous feed force N	2,400	4,100
Peak feed force N	10,000	
Stroke lengths mm	60 / 100 / 160 / 180 / 200 / 400 / 600	
Max. velocity mm/s	450	

1) Maximum permitted torque

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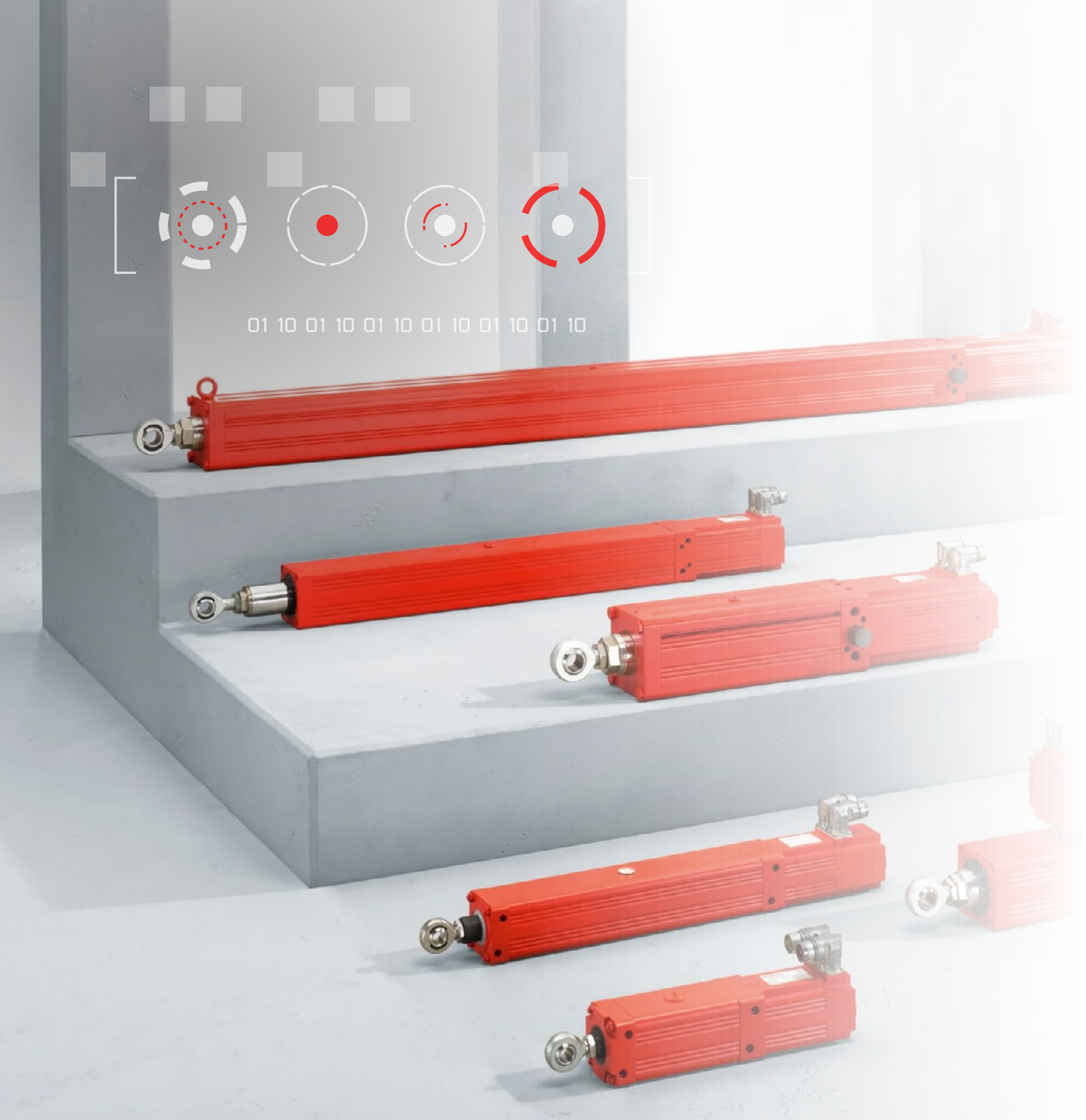
ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSB71

ELECTRICAL DATA			
Type	CMSB71S	CMSB71M	CMSB71L
Max. torque Nm	19.2	25	25
Standstill torque Nm	6.4	9.4	13.1
MECHANICAL DATA			
Rated speed n_N	2,000 rpm / 3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT 32x6	KGT 32x6	KGT 32x6
Max. continuous feed force N	5,000	7,500	10,000
Peak feed force N	18,000	24,000	24,000
Stroke lengths mm	100 / 160 / 200 / 400 / 600 / 800 / 1,000 / 1,200		
Max. velocity mm/s	450	450	450



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

ELECTRICAL DATA				
Type	CMS71L			
Max. torque Nm	31.4	22.1 [1]		24.4 [1]
Standstill torque Nm	9.5			
MECHANICAL DATA				
Rated speed n_N	2,000 rpm / 3,000 rpm / 4,500 rpm			
Spindle type	KGT 32x10	KGT 32x6		KGT 24x5
Max. continuous feed force N	3,600	6,700		7,200
Peak feed force N	17,000	20,000	15,000 20,000	20,000
Stroke lengths mm	200	200	350	200
Max. velocity mm/s	500	300	200	250

1) Maximum permitted torque

AREAS OF OPERATION

- → Process engineering or packaging technology
- → Handling
- → Printing and plastics industry
- → Wood processing

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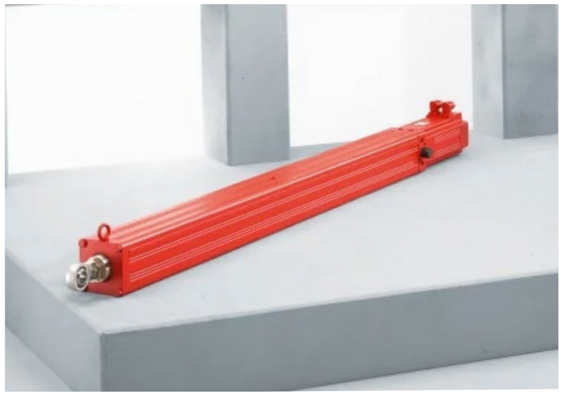
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ELECTRIC CYLINDER OF THE CMS.. SERIES

MODULAR ELECTRIC CYLINDER CMSM.. – AXIALLY SERIAL AND PARALLEL CONFIGURATION

PROPERTIES

CMSMB50 – 71 SERIES / ACH OR ACA (AXIALLY SERIAL)

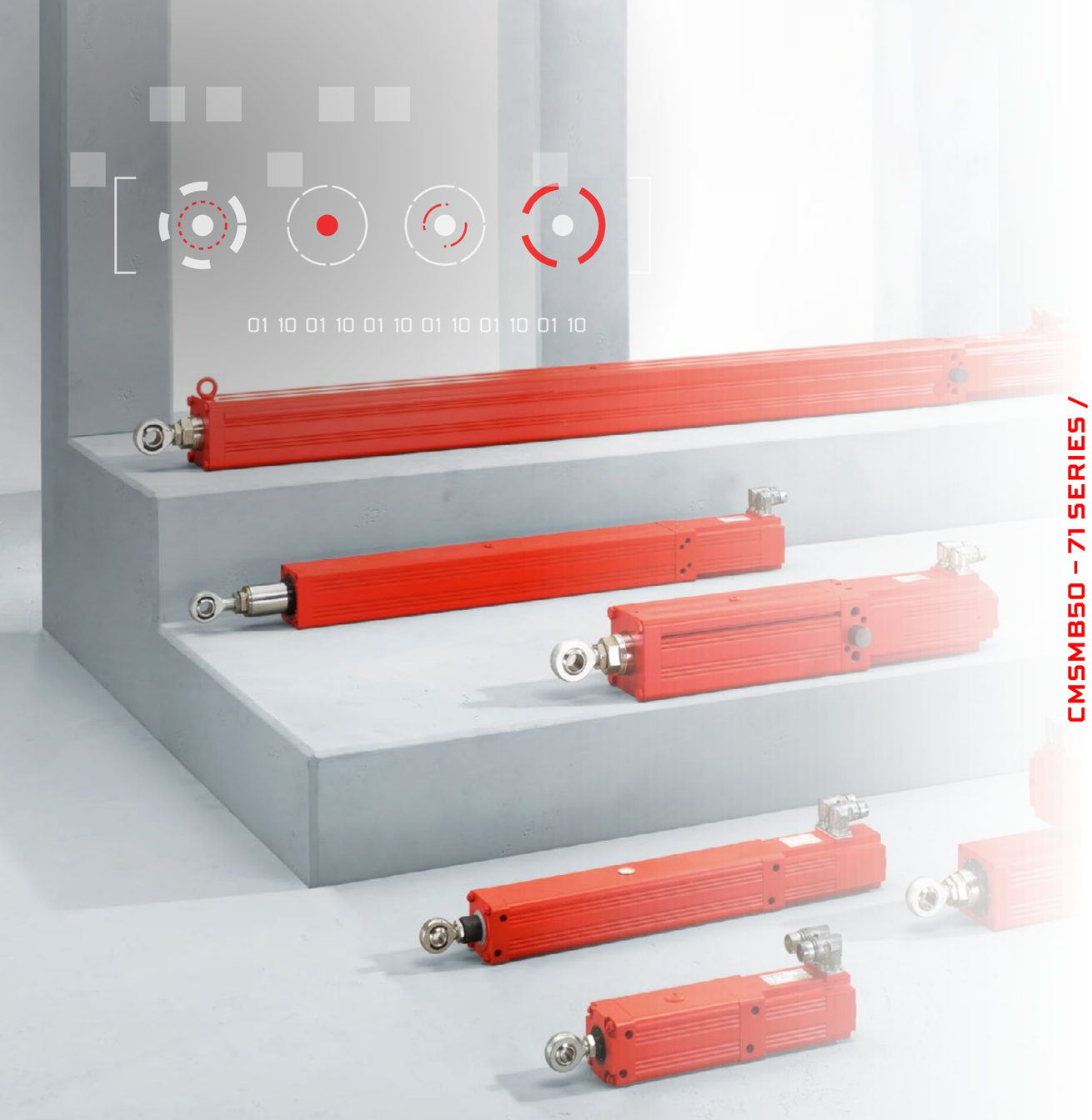


- → Can be combined with our standard servomotors (CMP50/63/71) using ACH/ACA adapters
- → Separately available modular unit (linear gear unit) with maintenance-free oil bath lubrication of the standard electric cylinder
  - Increased thermal utilization
  - Homogeneous heating
  - Maintenance-free thanks to lubrication for life

CMSMB50 – 71 SERIES / AP (AXIALLY PARALLEL)



- → Can be combined with our standard servomotors (CMP50/63/71) using AP adapter
  - Compact design
  - Patented maintenance-free oil bath lubrication (lubrication for life)
  - Very high thermal power density
  - Very low-noise operation
  - Optional water cooling



CMSMB50 – 71 SERIES / ACH OR ACA (AXIALLY SERIAL)

ELECTRIC CYLINDER OF THE CMS.. SERIES

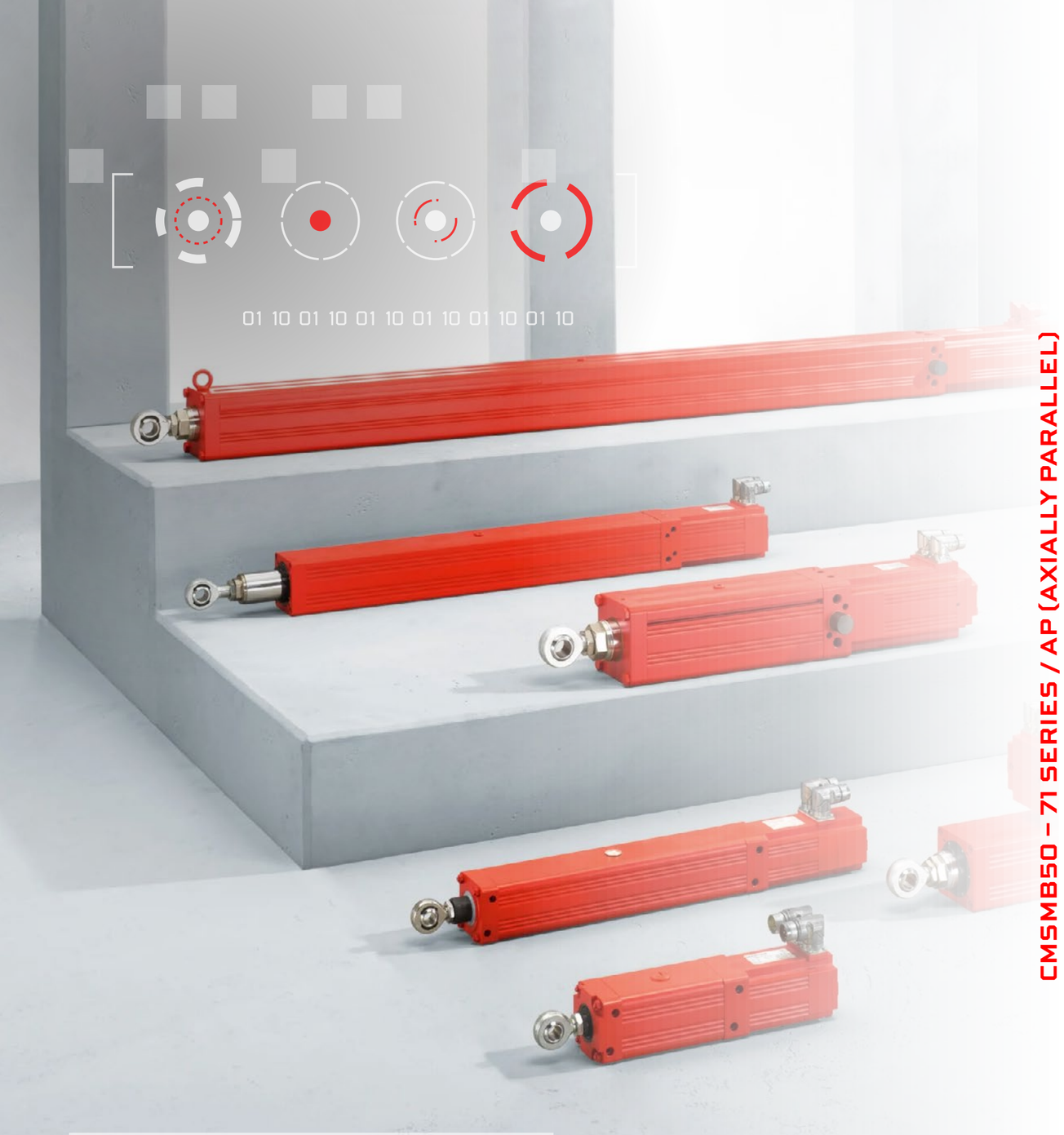
ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

ELECTRICAL DATA

Type	CMSMB50/ACH or ACA	CMSMB63/ACH or ACA	CMSMB71/ACH or ACA
Max. permitted input torque Nm	7	11.1	25
Max. permitted input speed rpm	4,500	4,500	4,500
Peak feed force N	8,000	10,000	24,000
Stroke lengths mm	70 / 100 / 150 / 200 / 300 / 400 / 600	60 / 100 / 160 / 180 / 200 / 400 / 600	100 / 160 / 200 / 400 / 600 / 800 / 1,000 / 1,200
Spindle type	KGT [1] 20x5	KGT [1] 25x6	KGT [1] 32x6

1) Maximum permitted torque



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

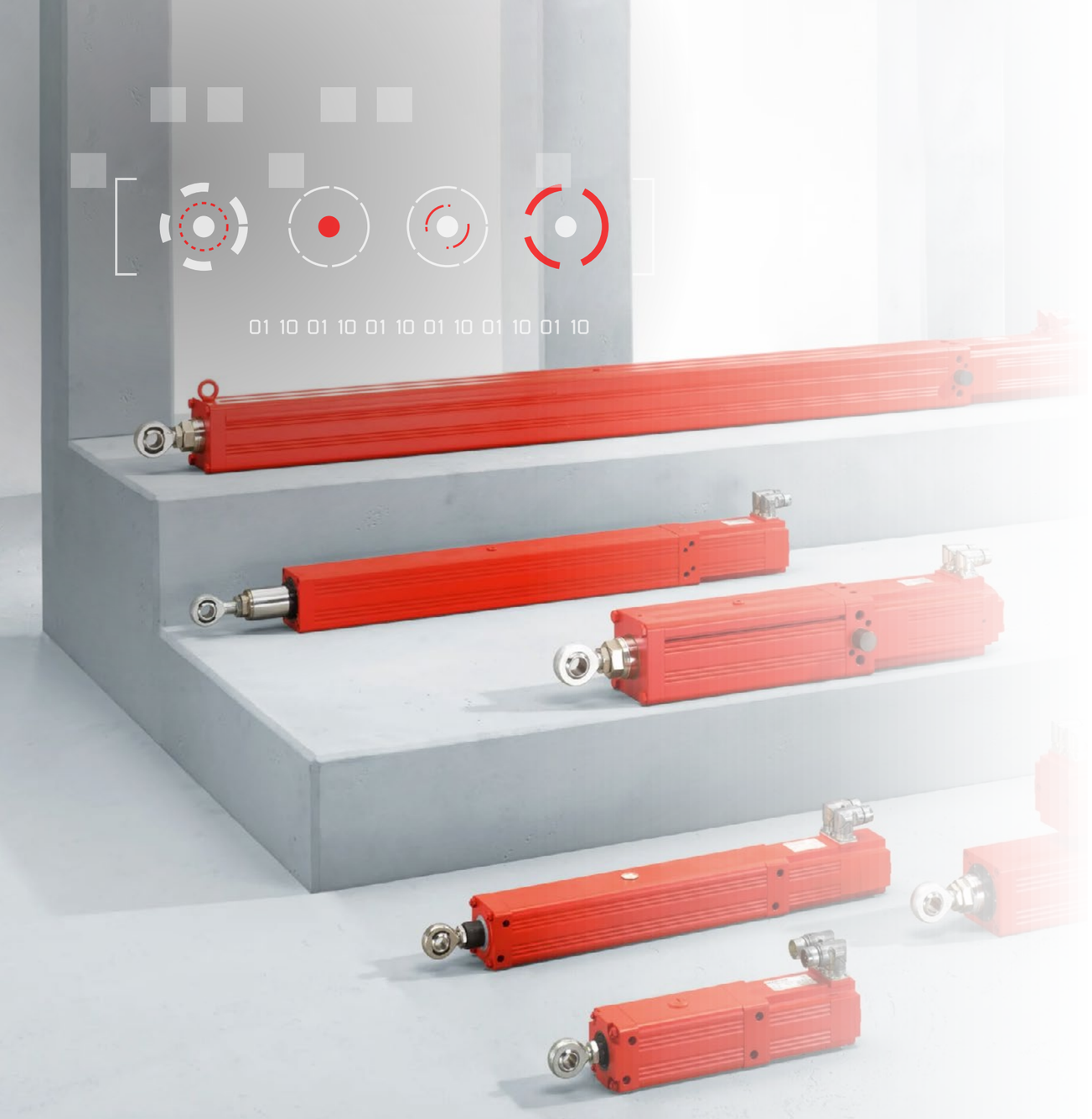
ELECTRICAL DATA

Type	CMSMB50/AP and		
	CMP50S	CMP50M	CMP50L
Max. torque Nm	5.2	7 [1)]	7 [1)]
Standstill torque Nm	1.3	2.4	3.3

MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT [2)] 25x6		
Max. continuous feed force N	1,200	2,200	2,200
Peak feed force N	5,300	8,000	8,000
Stroke lengths mm	70 / 100 / 150 / 200 / 300 / 400 / 600		
Max. velocity mm/s	375	375	375

1) Maximum permitted torque



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSMB63/AP

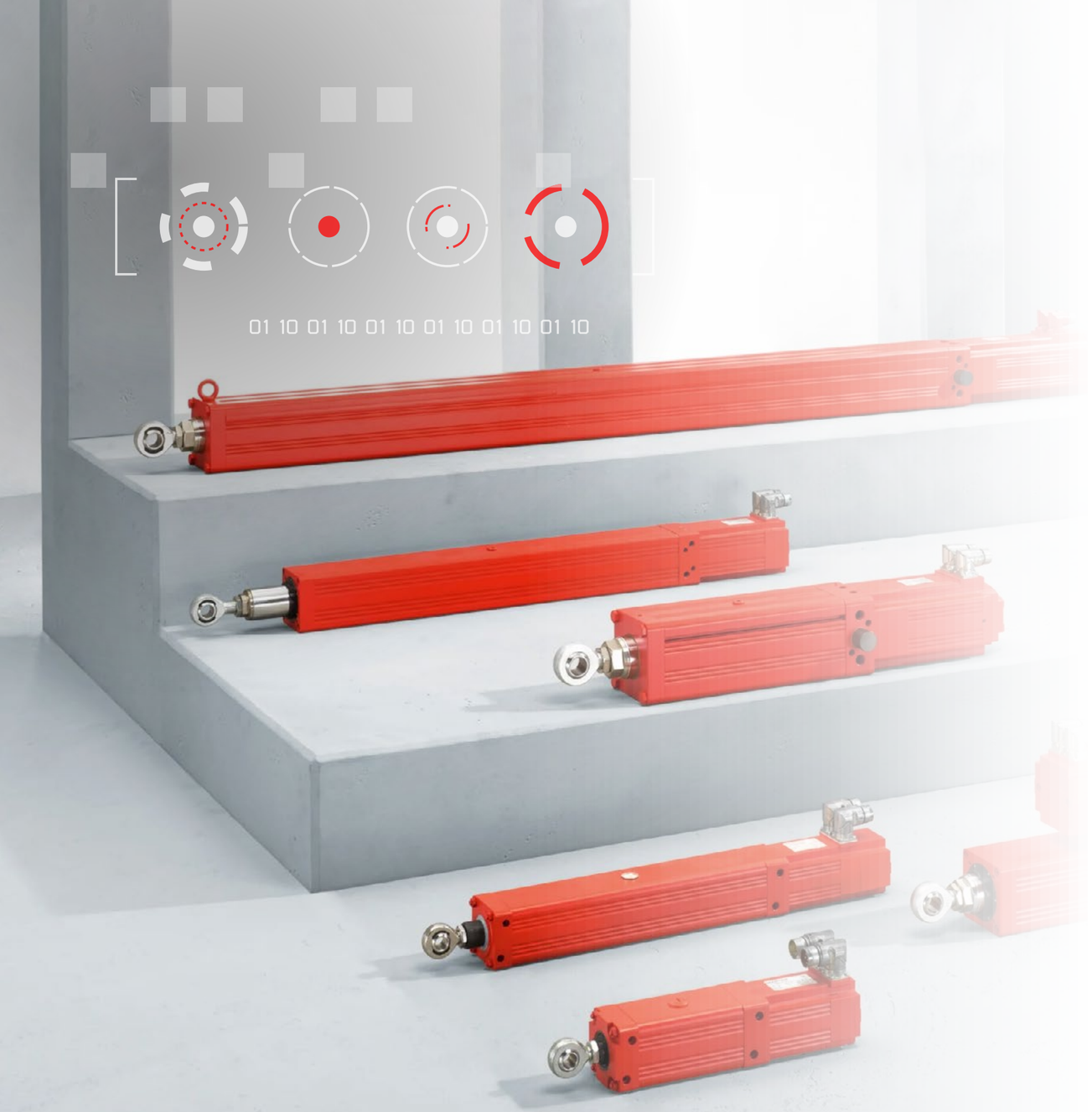
ELECTRICAL DATA

Type	CMSMB63/AP and		
	CMP63S	CMP63M	CMP63L
Max. torque Nm	11.1	11.1 [1]	11.1 [1]
Standstill torque Nm	2.9	5.3	7.1

MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT [2] 25x6		
Max. continuous feed force N	2,400	3,600	4,800
Peak feed force N	10,000	10,000	10,000
Stroke lengths mm	60 / 100 / 160 / 180 / 200 / 400 / 600		
Max. velocity mm/s	450	450	450

1) Maximum permitted torque



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSMB71/AP

ELECTRICAL DATA

Type	CMSMB71/AP and		
	CMP71S	CMP71M	CMP71L
Max. torque Nm	19.2	25 [1]	25 [1]
Standstill torque Nm	6.4	9.4	13.1

MECHANICAL DATA

Rated speed n_N	2,000 rpm / 3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT [2] 32x6		
Max. continuous feed force N	5,000	7,500	10,000
Peak feed force N	18,000	24,000	24,000
Stroke lengths mm	100 / 160 / 200 / 400 / 600 / 800 / 1,000 / 1,200		
Max. velocity mm/s	450	450	450

1) Maximum permitted torque

AREAS OF OPERATION

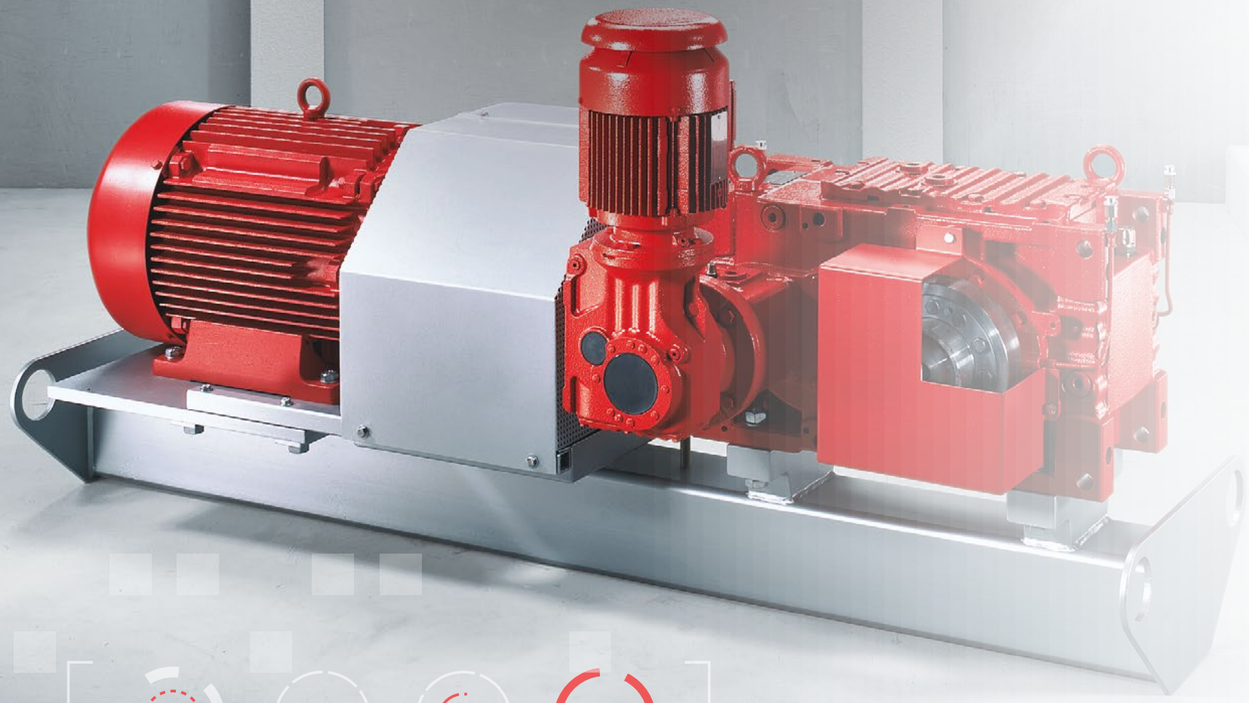
- → Process engineering or packaging technology
- → Handling
- → Printing and plastics industry
- → Wood processing

ALL IN-ONE SOLUTION FOR COAL MINING

CONVEYOR DRIVE APPLICATIONS

CUSTOMIZED DESIGN BASED ON YOUR REQUIREMENTS

LOCAL ASSEMBLY



01 10 01 10 01 10 01 10 01 10 01 10

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SWINGBASE

BENEFITS

All-in-one package

- All components are mounted together on a base plate to allow for simple installation

Customizable to customer requirements

- Any combination of gearbox, coupling, brakes, motors is possible – we can even design the base plate to fit into your space constraints
- Complete drive solution

Peace of mind

- The torque arms ensure flexibility in the system to ensure reliability
- Our drives are locally assembled for faster turn-around time

FEATURES

→ **Swingbase design configurations** are customized to customer requirements.
→ **Cooling** – Optimized cooling and heating systems for all ambient conditions – integrated and external cooling methods
→ **Starting method** – VSD, DOL or Fluid Coupling starting systems can be configured
→ **Installation** – Swingbase or Foot mount designs possible
→ **Torque Arm** – various torque arm configurations possible
→ **Guards** – All moving parts are covered by custom-made guards

APPLICATION

SEW-Eurodrive swingbase designs are predominantly used for conveyor drive applications, across all market sectors.



BELLHOUSING

BENEFITS

All-in-one package

- All components are mounted together on a bellhousing and skid to allow for easier movement and installation in tight spaces

Customizable to customer requirements

- Any combination of gearbox, coupling, brakes, motors is possible – we can even design the base plate to fit into your space constraints
- Complete drive solution

Self-aligning drive

- The bellhousing ensures a rigid structure between motor and gearbox, so there is no need to complete alignment upon installation

FEATURES

→ **Rigid design** – The rigid design of the bellhousing ensures the motor and gearbox are always truly aligned
→ **Skid design** – allows for the drive to be slid into the tight spaces under ground
→ **Starting method** – VSD, DOL or Fluid Coupling starting systems can be configured
→ **Installation** – Single torque arm mounting point for easy installation
→ **Guards** – All moving parts are covered by custom-made guards

APPLICATION

SEW-Eurodrive bellhousing drives are used in underground coal mining conveyor drives.

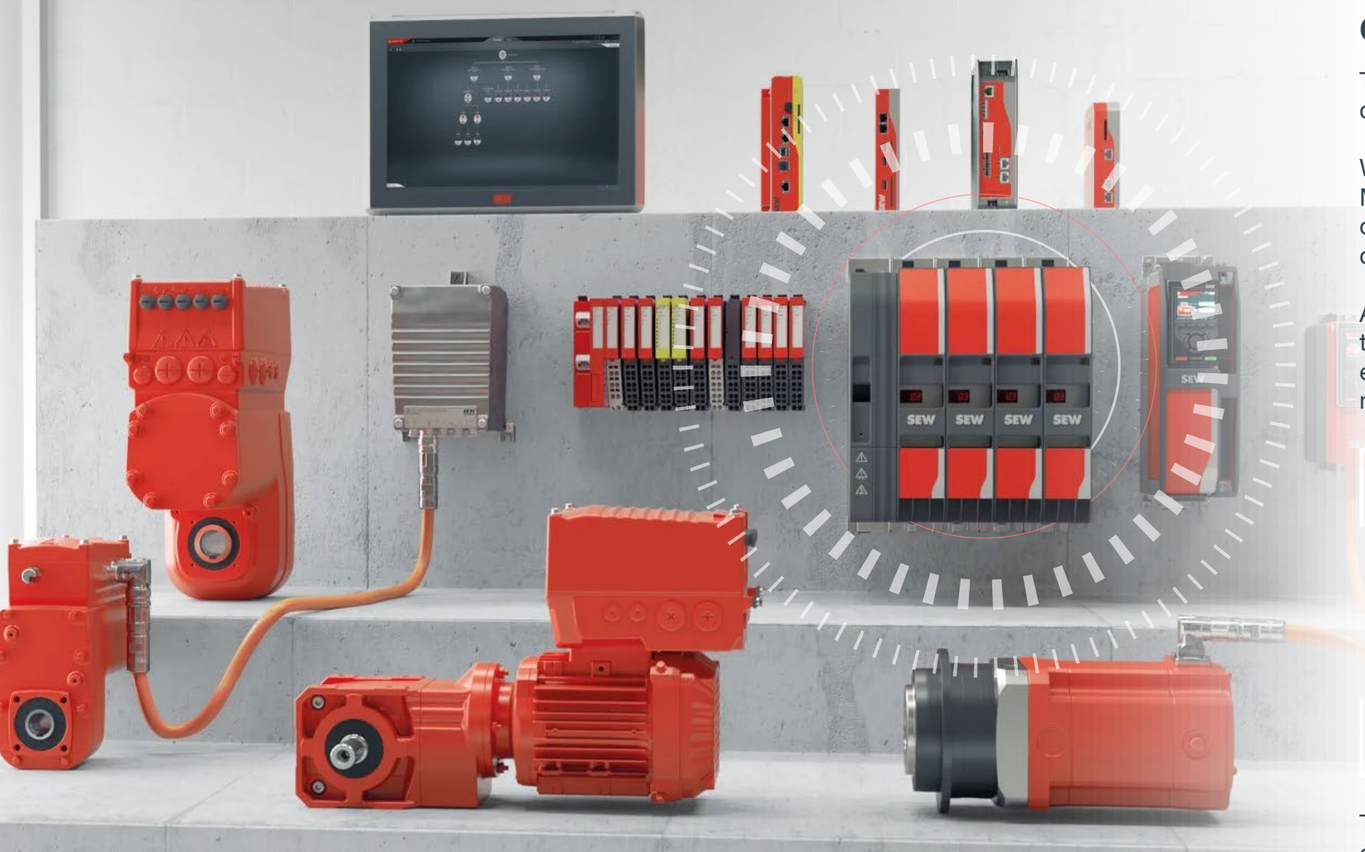
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NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

PRODUCT DESCRIPTION

Automation without the headaches? Absolutely! If you take motion control and automation control from the same source. Our control technology combines high-performance hardware, easily programmable software and user-friendly visualization solutions. Would you rather not have to do any programming? Not a problem. MOVI-C® comes with ready-made software modules for simple and complex control functions. All you have to do is set the parameters. Time-consuming programming is a thing of the past.

CONTROL TECHNOLOGY

The control technology is based on a common platform for control cabinet and decentralized controllers with the same functionalities and identical interface diversity.

Whether they are used for motion control, automation control or cyber-physical control tasks, MOVI-C® CONTROLLER units can be linked to the higher-level controller of a machine cell or system using classic fieldbus slave interfaces for the PROFINET, PROFIBUS, EtherNet/IPTM or Modbus TCP fieldbus systems.

Alternatively, they can be used as independent controllers for machines or systems, in which case they take care of smooth communication via EtherCAT® / SBUSPLUS with the subordinate devices, e.g. MOVIDRIVE® application inverters and their synchronous connection to the movement/application.



The performance class of a MOVI-C® CONTROLLER depends on the number of inverters and the number of synchronous axes and auxiliary axes required and to be configured for the movement. Four performance classes for up to 32/32, 16/16, 8/8 or 2/6 axes are available. All versions have a compact design, meaning they can fit into even small machine control cabinets.

The decisive added value for reducing complexity is provided by the integrated software of the central
and decentralized controllers: parameterizing instead of programming. For you as a user, this software means more scope for parameterization and less programming effort.

Our control technology and software also give you the option of writing your own programs. Would you prefer to create your own bespoke programs for your application, such as PLC functions or specific rules, so you can stand out from your competitors? If so, then our software platform has exactly what you need.

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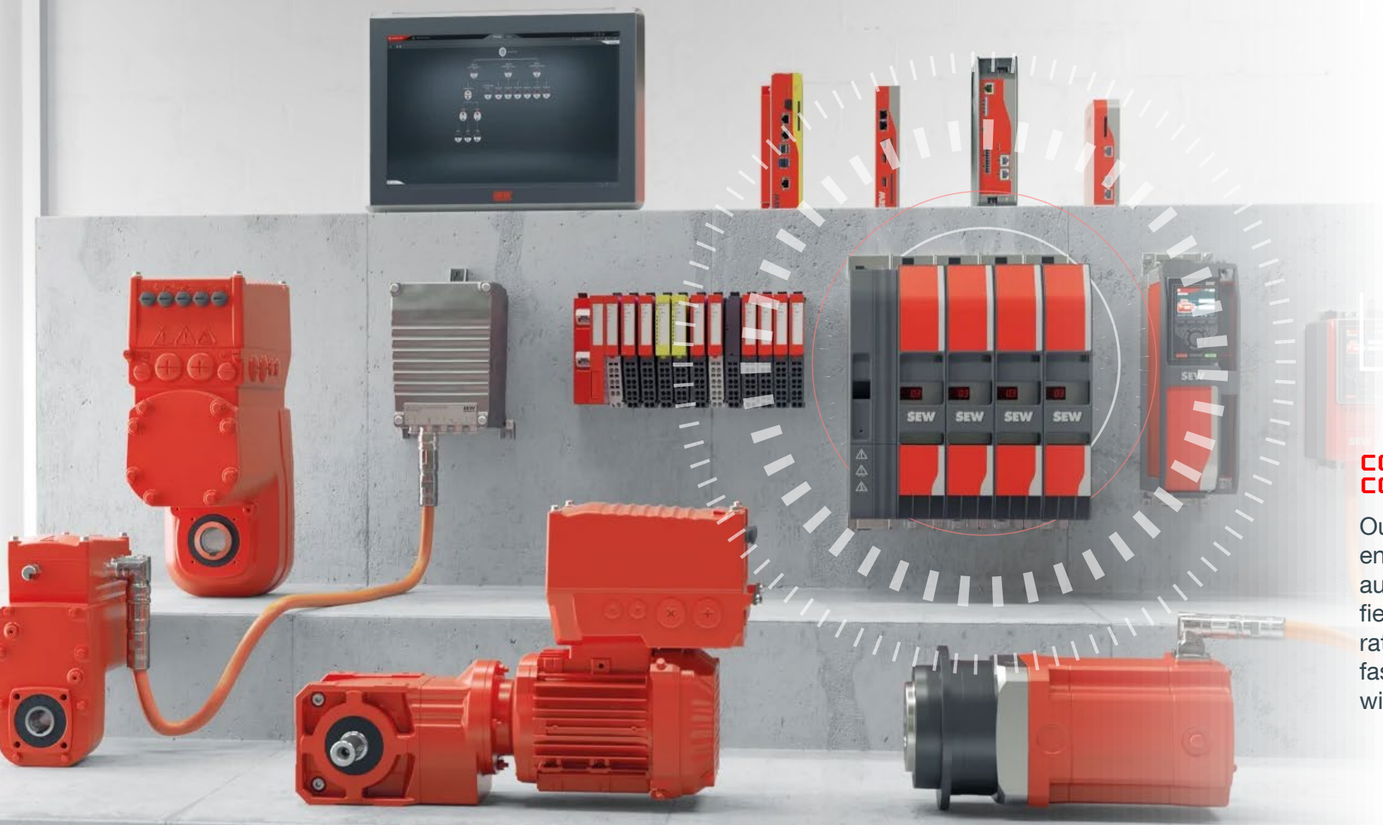
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NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

HARDWARE

SEW-EURODRIVE is continuously expanding the control technology in the MOVI-C® modular automation system with new hardware. The new components, perfectly matched to the existing MOVI-C® family, offer new, exciting options for implementing simple to complex systems.



CONTROL CABINET CONTROLLERS

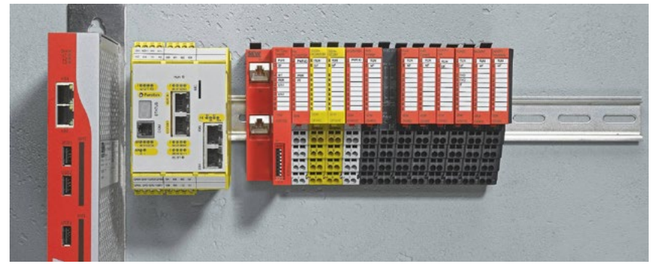
The controllers can be used both for challenging motion control tasks under any market-standard control system and as independent higher-level controllers for automation or even cyber-physical control tasks for complex machines and systems.

DECENTRALIZED CONTROLLERS

In addition to the drives with the MOVI-C® FIELD CONTROLLER standard and advanced, we also offer motion controllers suitable for customized applications. The housing's high degree of protection ensures the controller can be flexibly used in the field – without needing an additional control cabinet.

CONTROL CABINET CONTROLLERS

Our MOVI-PLC® I/O modules enable you to expand your automation network and connect all field units. High bus transmission rate, simple click connection for fast mounting, space-saving and with clear installation.

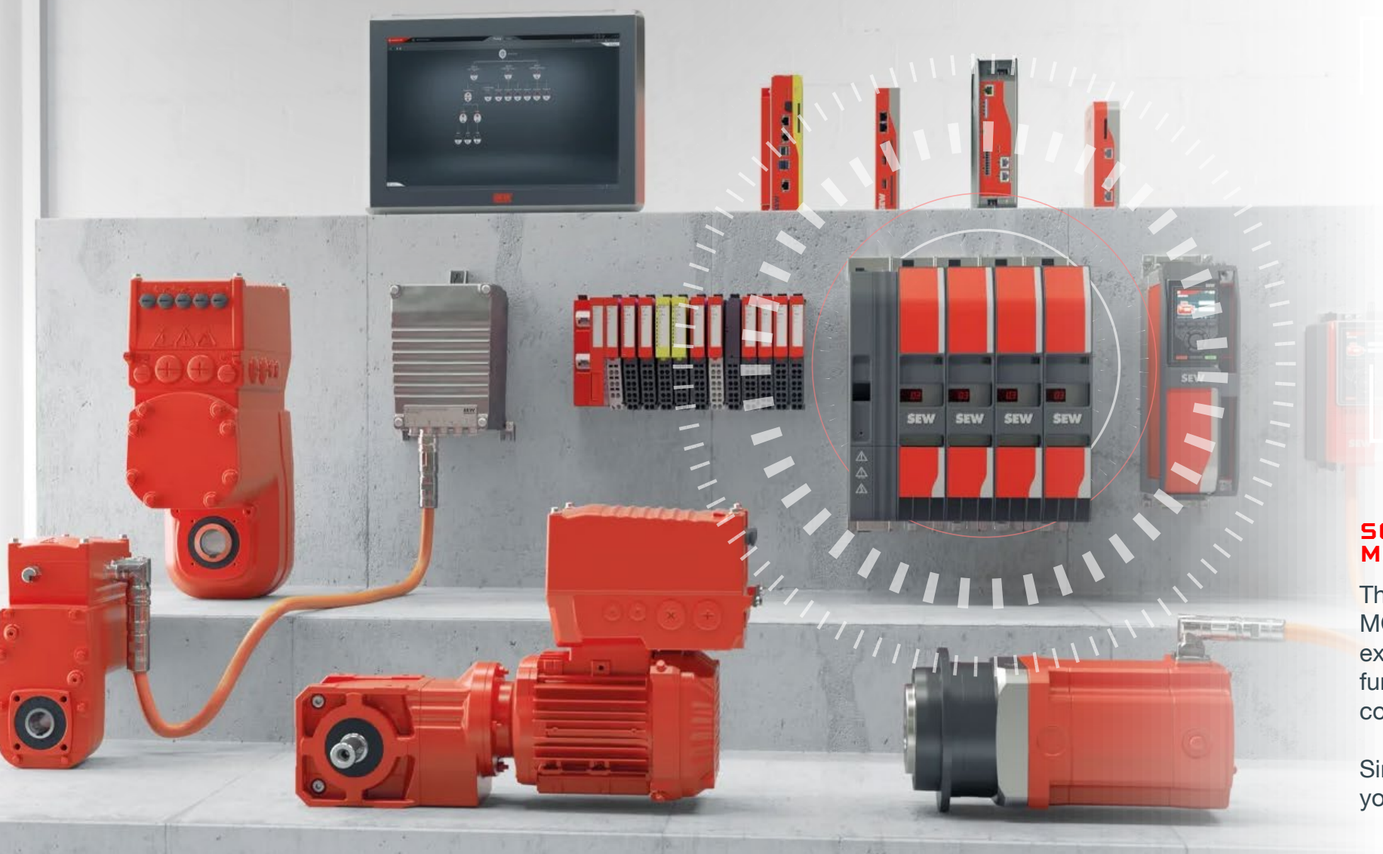


NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

SOFTWARE

MOVI-C® means motion control without headaches. The MOVI-C® controllers with software modules MOVIKIT® ensure the movement of the various handling units or production machines. For engineering and startup of your application, the MOVI-C® modular automation system also offers the right software solution with MOVISUITE®. Always with the aim of reducing your time and programming efforts.



ENGINEERING SOFTWARE MOVISUITE®

MOVISUITE® enables you to start up and diagnose the drive train easily and quickly - from the inverter to the controller.

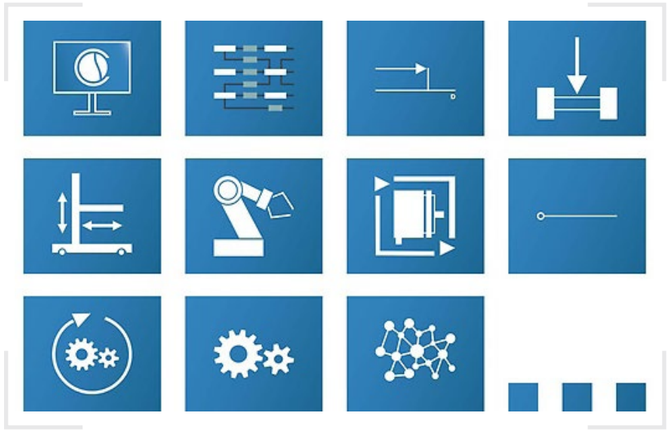
SOFTWARE PLATFORM MOVIRUN®

The MOVIRUN® software platform on the MOVI-C® CONTROLLER or MOVI-C® FIELD CONTROLLER handles the coordination of the axes and the execution of the software modules MOVIKIT®.

SOFTWARE MODULE MOVIKIT®

The range of ready-made MOVIKIT® software modules extends from simple drive functions to sophisticated motion control and robotics functions.

Simply parameterize and off you go.



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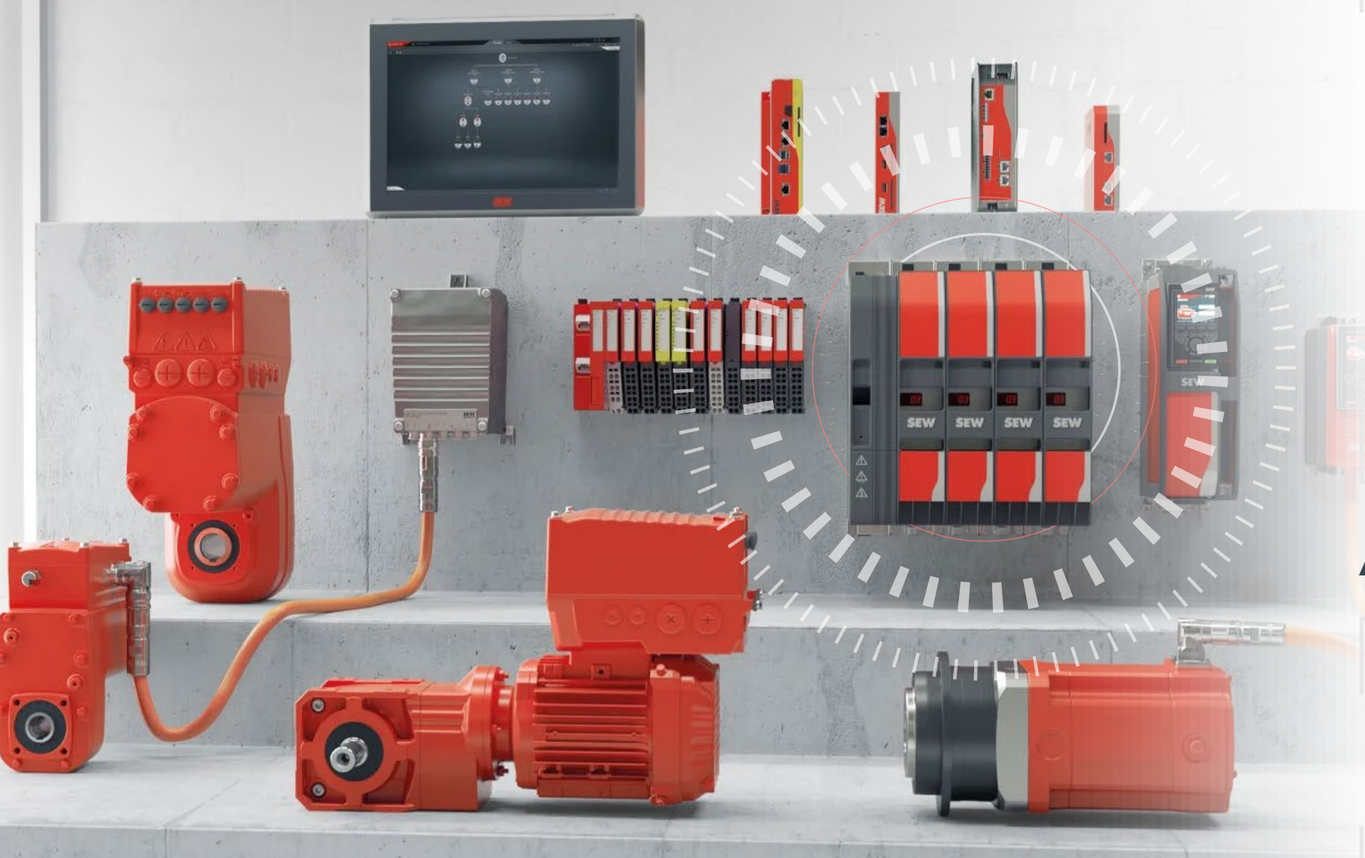
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NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

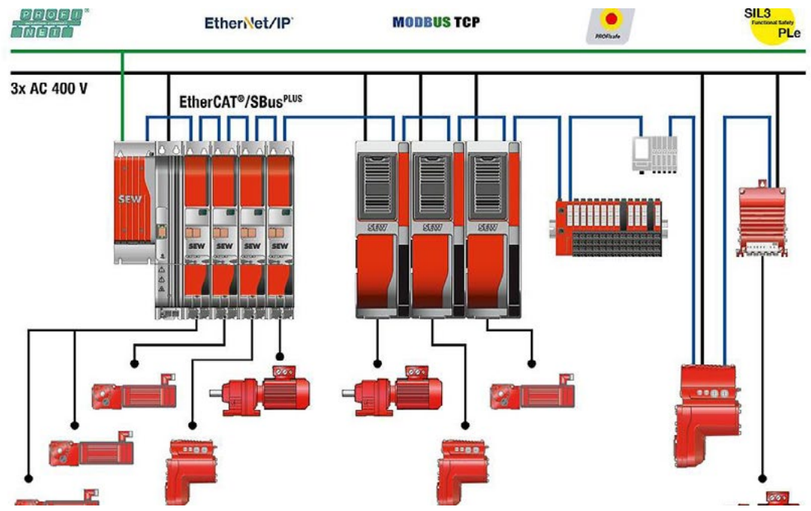
SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

TOPOLOGIES

The CONTROLLERs from the MOVI-C® modular automation system can solve a range of tasks with ease. A variety of options are available for integrating them into the system topology, depending on requirements or application.



ACCESSORIES AND OPTIONS

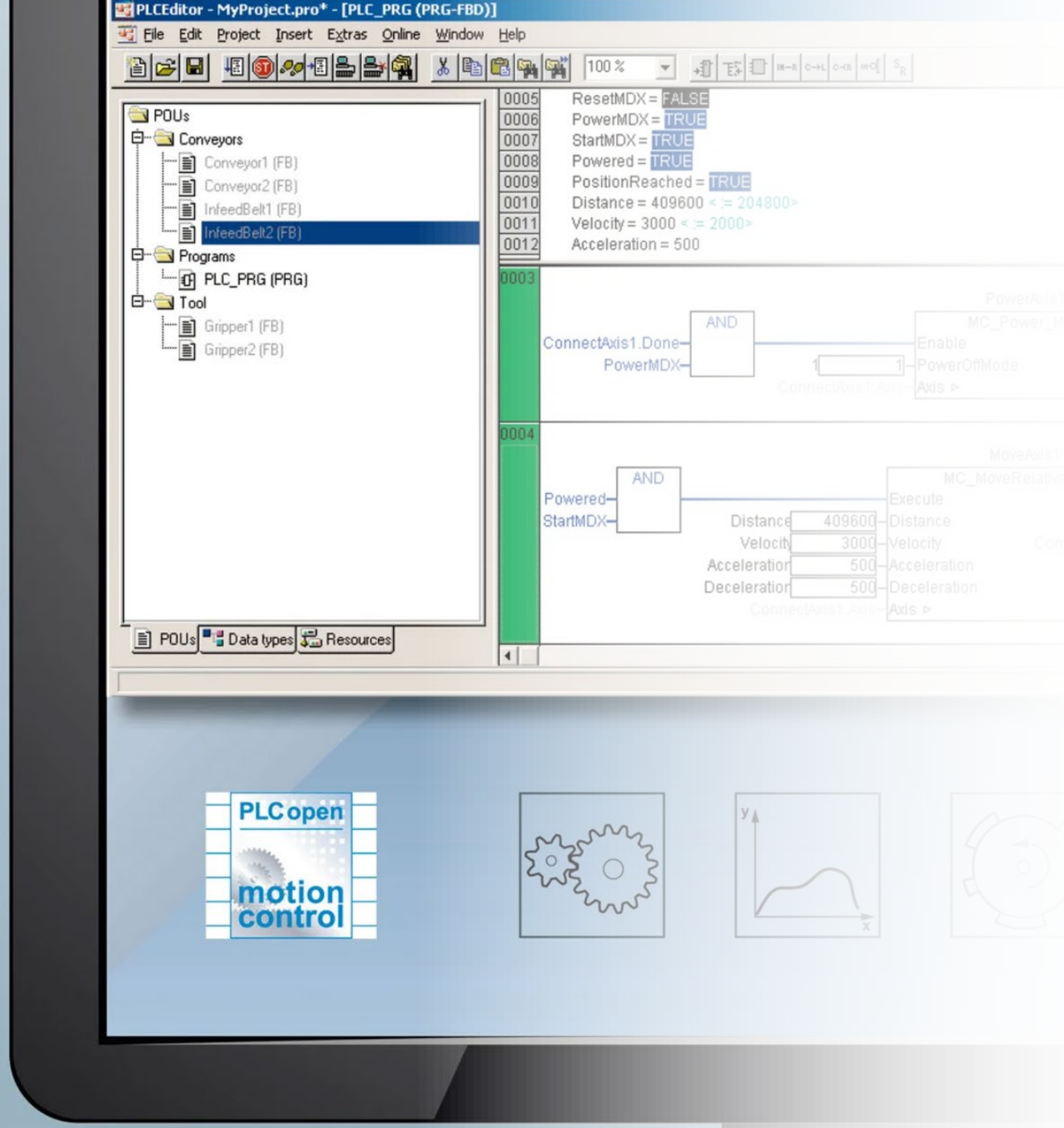


VISUALIZATION

It's important to keep track of sophisticated drive tasks involving a large number of axes. We are therefore now offering a three-part modular system that covers every conceivable requirement – from standard to customized visualization.

MOVI-PLC® I/O MODULES

Our MOVI-PLC® I/O modules enable you to expand your automation network and connect all field units. High bus transmission rate, simple click connection for fast mounting, space-saving and with clear installation.



MULTIMOTION MOTION CONTROL PLATFORM

PRODUCT DESCRIPTION

The more complex the automated motion sequence, the more important it is to have an efficient engineering solution that provides convenient access to a wide range of motion control functionalities.

EFFICIENT ENGINEERING SOLUTIONS WITH OUR MULTIMOTION MOTION CONTROL PLATFORM

The drive solutions used in machines can be very diverse. Functionality can range from basic speed specification, positioning, and synchronized movement of axes with electronic cams, right through to robotics, where multiple axes are required to follow a precisely defined spherical curve.

The range of drives and drive electronics that are used in these applications is equally diverse. The MultiMotion motion control platform helps users to handle this diversity and quickly achieve their goal thanks to an efficient engineering solution.

The MultiMotion platform focuses on the following:

- As much configuration as possible – complicated programming of complex technology functions is no longer necessary
- As much programming as necessary – flexibility for any customizations needed, with possibility of extensions
- Support via graphical tools – guided configuration of standard functions, user-friendly diagnostics
- Standardized interfaces – access from the application program via a standardized interface

When it comes to creating customized solutions, the MultiMotion motion control platform provides maximum support. Many motion control functions can be accessed directly thanks to graphical configuration, which means you don't waste valuable time on tedious programming. You can still design your application program according to your own requirements and access drive functions via a standardized interface. You can also extend your MultiMotion motion control platform by adding individual technology modules and benefit from the additional functionality provided.

BENEFITS

Universal platform
We provide support for all controllers in all performance classes as well as the entire range of drive electronics

Comprehensive functionality
Thanks to the integration of a wide range of motion control functions

Simple configuration
Graphical tools are provided for configuration and diagnostics

Efficient engineering
Many functions can be implemented after simple configuration

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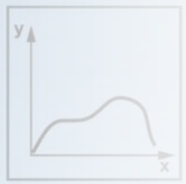
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MULTIMOTION MOTION CONTROL PLATFORM







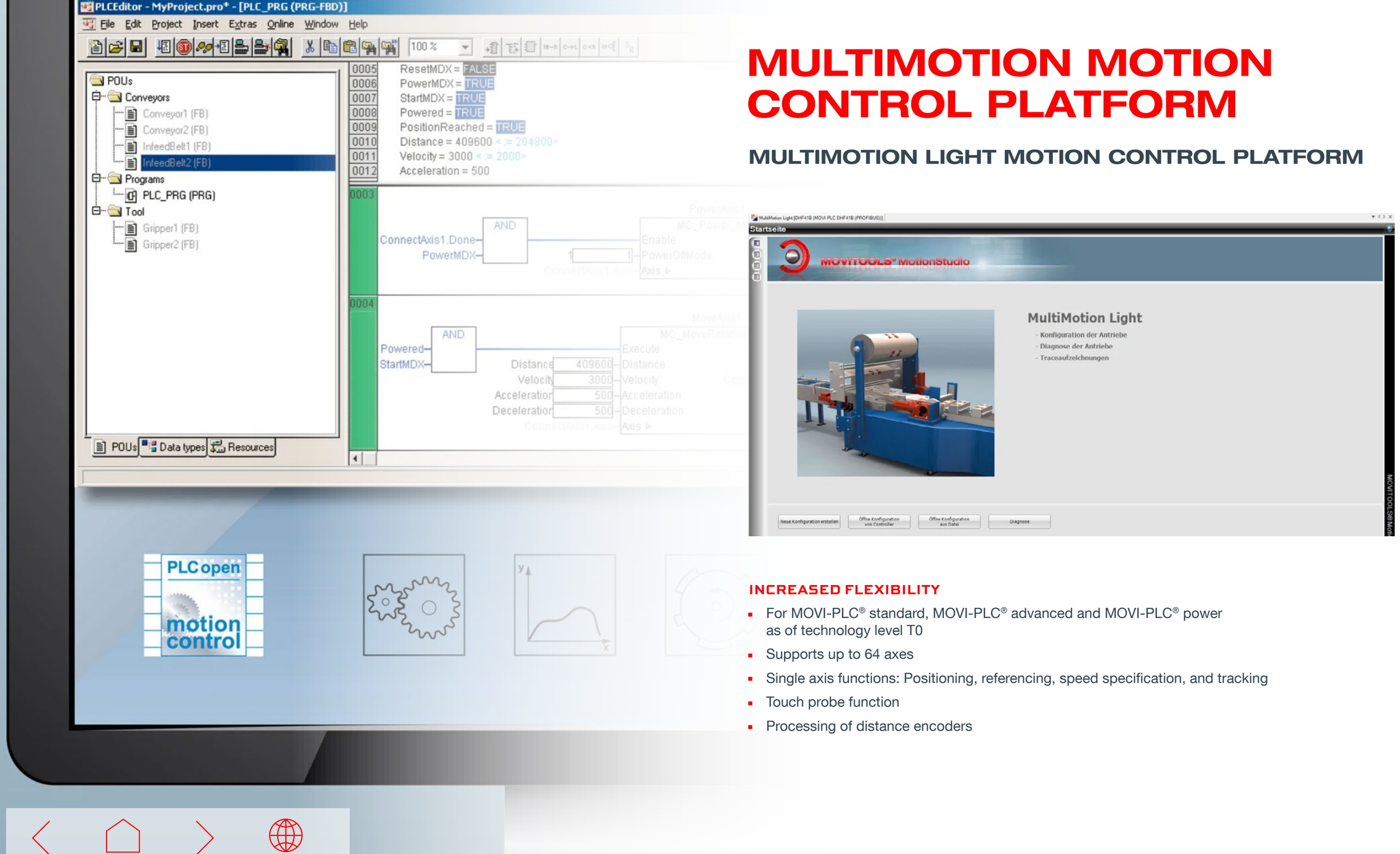


FREELY PROGRAMMED APPLICATIONS

- For MOVI-PLC® advanced and MOVI-PLC® power as of technology level T2
- Supports up to 64 axes
- Single axis functions: Positioning, referencing, speed specification, and tracking
- Touch probe function
- Processing of distance encoders
- Technology functions: Synchronous operation, electronic cam functions, and interpolation with different engagement and disengagement mechanisms
- Cam switch for up to 8 cam tracks

MULTIMOTION MOTION CONTROL PLATFORM

MULTIMOTION LIGHT MOTION CONTROL PLATFORM



INCREASED FLEXIBILITY

- For MOVI-PLC® standard, MOVI-PLC® advanced and MOVI-PLC® power as of technology level T0
- Supports up to 64 axes
- Single axis functions: Positioning, referencing, speed specification, and tracking
- Touch probe function
- Processing of distance encoders

MULTIMOTION MOTION CONTROL PLATFORM

HANDLINGKINEMATICS TECHNOLOGY MODE



CONFIGURE AND CUSTOMIZE WITH EASE

Features

- If the configurable CCU HandlingKinematics application module covers all of your functional requirements, but you require greater flexibility, opt for the HandlingKinematics technology module for the freely programmable MOVI-PLC®

Benefits

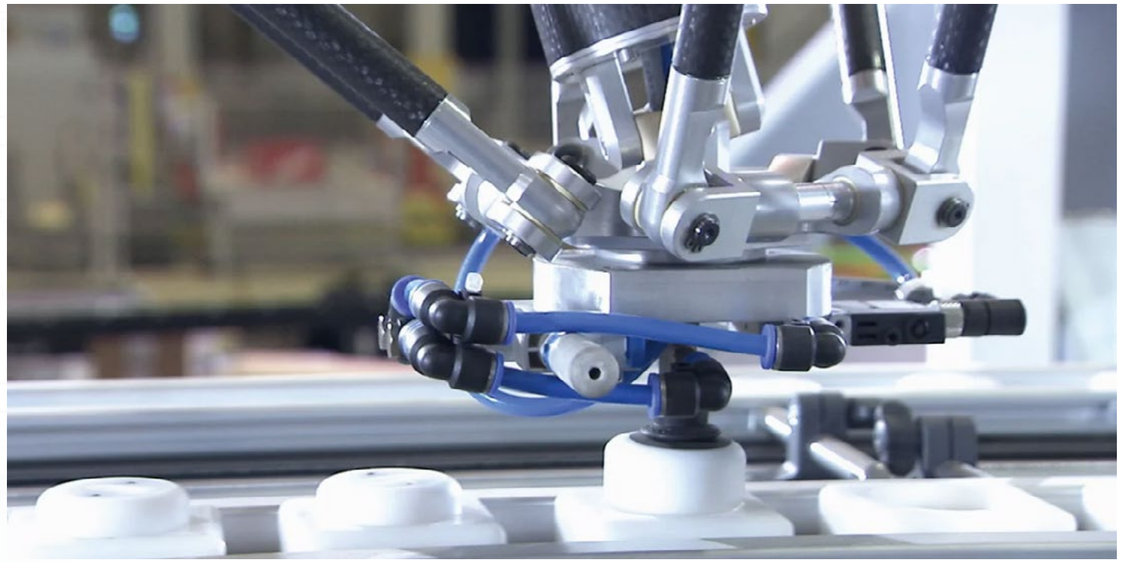
- Effortless configuration of entire motion paths for handling applications
- Ability to extend and modify the fieldbus interface according to your needs: you can control the technology module directly, or via signals in your MOVI-PLC® program
- All sensors and actuators used for motion control can be connected to our MOVI-PLC®

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MULTIMOTION MOTION CONTROL PLATFORM

KINEMATICS TECHNOLOGY MODULE



SPECIAL PATHS CAN BE PROGRAMMED EASILY

Features

- If your functional requirements go beyond those met by the HandlingKinematics technology module, opt for the Kinematics technology module which offers maximum functionality

Benefits

- Maximum flexibility thanks to the ability to access all motion parameters for each motion sequence
- Handling and processing of moved objects
- Synchronization of multiple robots, synchronization with conveyor belts, CAM profiles, etc.

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MULTIMOTION MOTION CONTROL PLATFORM

EFFISRS TECHNOLOGY MODULE FOR ENERGY-EFFICIENT STACKER CRANES



SUPPORTS SUSTAINED ENERGY-EFFICIENT OPERATION OF HIGH-BAY WAREHOUSES

Features

- Supports the energy-efficient operation of high-bay warehouses

Benefits

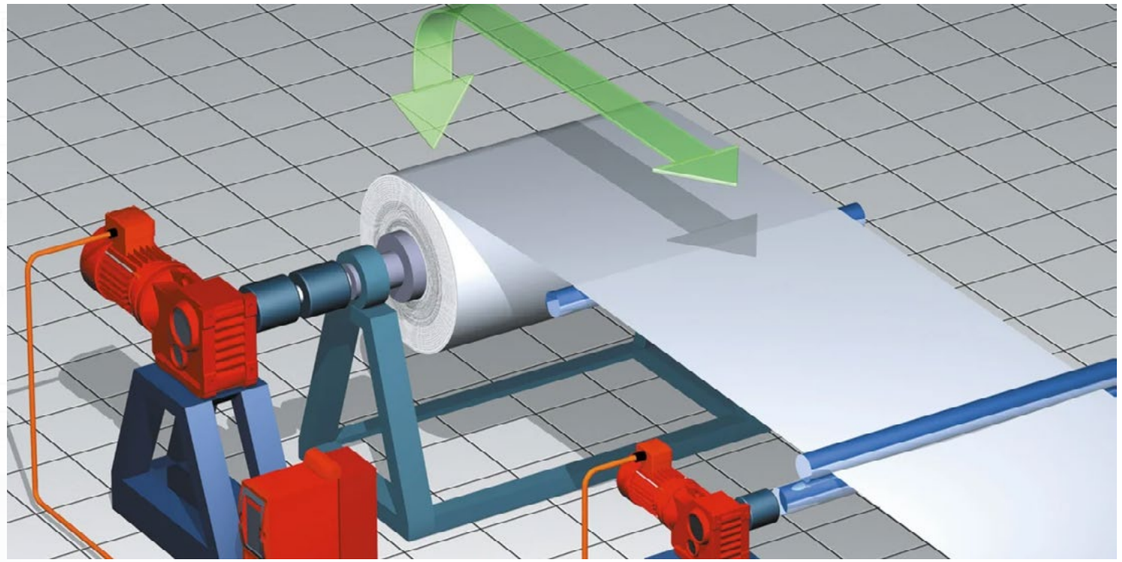
- Energy-efficient coordination of vertical lifting and horizontal travel axes
- Support for one or two vertical lifting drives
- Slackness detection, buffer storage, optional recovery

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MULTIMOTION MOTION CONTROL PLATFORM

WINDER TECHNOLOGY MODULE



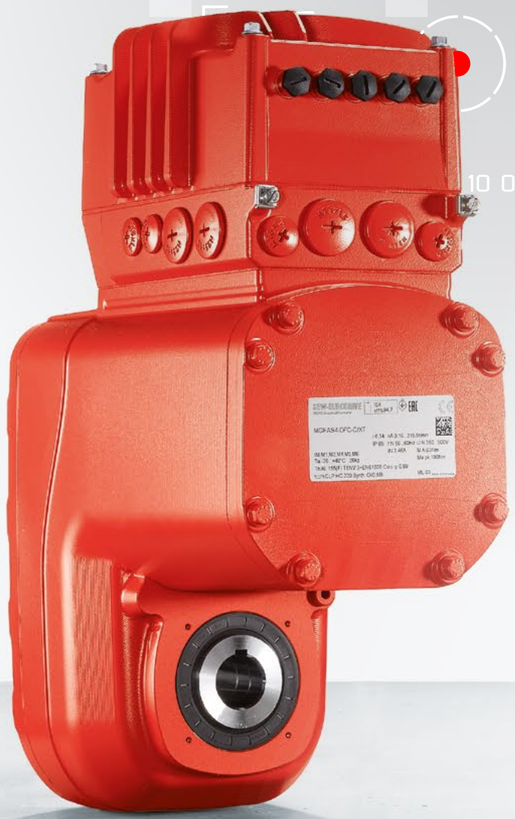
WIND AND UNWIND MATERIAL AT A CONSTANT TENSION OR LINE SPEED

Features

- Designed for applications that require the winding or unwinding of material based on a constant tension or line speed
- Different winding technologies for different materials and machine situations

Benefits

- Tension determined by winder via torque control, tension control, and jockey position adjustment
- Speed determined by winder with optional speed control



IE5 ENERGY RATING

FULLY INTEGRATED AND COMPACT DESIGN

DECENTRALIZED MECHATRONIC DRIVES

MOVIGEAR® PERFORMANCE

PRODUCT DESCRIPTION

Decentralized drive technology couldn't be more intelligent, lean, efficient and cost-effective than this. The MOVIGEAR® performance drive unit combines motor, gear unit and inverter in a single housing. What's more, the decentralized inverter from the MOVI-C® modular automation system means the drive unit can be used in all standard Ethernet-based infrastructures.

Based on the MOVI-C® modular automation system, we have further enhanced our MOVIGEAR® drive unit for your benefit. MOVIGEAR® performance complements existing products in terms of functionality and consistency and extends the range of possible applications for our decentralized drive technology, which has been proving its worth for decades.

The MOVIGEAR® performance drive unit consists of a decentralized inverter, a permanent-field synchronous motor and a gear unit. These three core components are located in a single compact aluminum die cast housing. MOVIGEAR® performance is therefore a compact, ready-to-use system that reliably takes less time to handle huge volumes.

BENEFITS

Compact
0.8 - 2.1 kW nominal power, and up to 6.3 kW peak power, fully integrated, up to 50 % lighter than conventional drive solutions

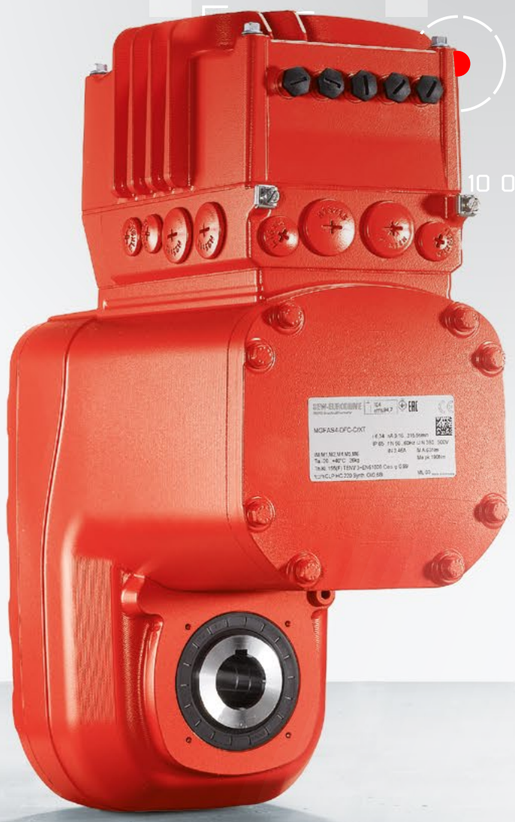
Universal
Variant reduction through optimal dimensioning based on a wide speed range and pronounced overload capability up to 300 % of the rated torque

Efficient
Efficiency class of the motor IE5 according to IEC TS 60034-30-2 and system power loss up to 50 % lower than IES2 according to IEC 61800-9-2

Low noise
75 % quieter than commercially available three-phase motors and hygienic convection cooling without a fan

Connective
Powerful connection to all common communication systems

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IE5 ENERGY RATING

FULLY INTEGRATED AND COMPACT DESIGN

DECENTRALIZED MECHATRONIC DRIVES

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MOVIGEAR® PERFORMANCE

FEATURES

- **Fully integrated and compact design:** Permanent magnet synchronous motor, gear unit and inverter combined in a single mechatronic drive unit
- **Universal mounting position /MU (M1, M2, M3, M4, M5, M6):** Pressure compensation of gear unit /PG
- **Hollow shaft design:**
  - With key
  - With TorqLOC® hollow shaft mounting system
- **Hollow shaft diameter:**
  - MGF..2-C: 20 mm, 25 mm, 30 mm, 35 mm, 40 mm
  - MGF..4-C / MGF..4-C/XT: 30 mm, 35 mm, 40 mm

APPLICATION

- **Dynamic materials handling technology:**
  - With speed-controlled axes
  - Positioning tasks also possible
- **Areas of application:**
  - Horizontal conveyor systems for intralogistics and parcel logistics
  - Food and beverage industry
  - Automotive industry
  - Baggage handling at airports

TECHNICAL DATA

Series/design	MGF..2-C	MGF..4-C	MGF..4-C/XT
Weight kg	16	26	28
Torque class Nm	200	400	400
Nominal power kW	0.8	1.5	2.1
Output speed range min-1	0.9 – 593	0.9 – 566	0.9 – 566
Connection voltage V	380 V – 500 V at 50/60 Hz	380 V – 500 V at 50/60 Hz	380 V – 500 V at 50/60 Hz
Hollow shaft diameter mm	20 / 25 / 30 / 35 / 40	30 / 35 / 40	30 / 35 / 40



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

PRODUCT DESCRIPTION

Mobile transport and assistance systems are putting an end to inflexible processes in production logistics, intralogistics, and manufacturing. Our service portfolio extends from planning, vehicle design, and vehicle production through to startup and our installed base service.

PRODUCTION AND LOGISTICS SOLUTIONS IN ALL INDUSTRIES

The mobile, autonomous transport systems combine modular and scalable hardware and software solutions – with customized configuration from the innovative MAXOLUTION® modular technology system:

- Bidirectional, free-ranging mobility with drive modules from SEW-EURODRIVE
- Customized configuration with specific load handling devices for easy integration into the process
- Application-specific functions such as cycle mode and continuous operation, assembly assistance, changes of level thanks to an elevator function, and load transfer from vehicle to vehicle
- Optimized for small and large, light and heavy loads
- Vehicle designs protected against dust and splash water, cleanroom solutions to ISO 6 and for applications with more stringent hygiene requirements
- VDA 5050 interoperable communication interface
- MAXOLUTION® connected for optimum planning and control of vehicle fleets

BENEFITS

Modular
From the MAXOLUTION® modular technology system for adaptability and maximum availability

Customized
Application-specific functions and vehicle designs – adapted to suit your particular needs

Efficient
Intelligent, contactless charging on the move ensures the entire system can be effectively utilized to its fullest extent

Flexible
Customer-specific interfaces for easy integration of various load handling devices



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → Compact vehicle design
- → Omni-directional manner of driving
- → Integrated lifting mechanism
- → The assistant picks up loads by driving under them and lifting them
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface
- → Reliable load detection

APPLICATION

- → Internal transportation of various load carriers such as frames and racks
- → Ideal for narrow routes and flexible maneuvering when delivering loads thanks to compact vehicle design and omnidirectional operation
- → Processes with high demands in terms of capacity utilization, thanks to intelligent, contactless charging during operation

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Conveyor
L = 1200 mm, W = 860 mm, H = 380 mm	Up to +/-10 mm	Max. 1.6 m/s	Integrated lifting mechanism (150 mm, stepless)
Payload	**Navigation**	**Drive concept**	**Power supply**
600 kg	Laser navigation, fine positioning, laser parking	Omnidirectioal operation with drive module from SEW-EURODRIVE	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**	**Safety**	**Object protection**
400 kg	Wi-Fi, 5G, VDA 5050, Full Safety	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

- → Drive module O, omnidirectional drive unit
- → TDM90E, pick-up (contactless, line)
- → EXK24, intelligent battery charger
- → MOVISAFE®, Safe Kinematic safety module
- → Brake caster, swivel caster with integrated secure holding brake
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation

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LOGISTICS ASSISTANT FOR TRANSPORTING PALLETS



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → The assistant picks up loads by driving under them and lifting them
- → Customized load handling
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface
- → Reliable load detection

APPLICATION

- → Internal transportation of various large load carriers such as pallets and cage pallets
- → Processes with high demands in terms of capacity utilization, thanks to intelligent, contactless charging during operation

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 1500 mm, W = 1000 mm, H = 510 – 660 mm	+/-2 mm to +/-10 mm	Max. 1.5 m/s	Lifting distance 150 mm
Payload	**Navigation**	**Drive concept**	**Power supply**
1500 kg	Laser navigation, fine positioning, laser parking	Bidirectional operation with drive module from SEW-EURODRIVE, differential drive	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**		
570 kg	Wi-Fi, 5G, VDA 5050		

MODULAR TECHNOLOGY SYSTEM

- → L100 drive module, bidirectional drive unit TDM80E, pick-up (contactless, point)
- → EXK24, intelligent battery charger
- → MOVISAFE®, Safe Kinematic safety module
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation

LOGISTICS ASSISTANT FOR CLEANROOMS AND MORE STRINGENT HYGIENE REQUIREMENTS



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → Cleanroom design to ISO 6 requirements, including stainless steel surface and abrasion-optimized wheels
- → Flexible integration of various load handling devices
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface

APPLICATION

- → Internal transportation of various large load carriers such as pallets, cage pallets, and special load carriers
- → Ideal for cleanrooms and hygienic rooms in line with ISO 6 requirements
- → Controlled transition into and out of a cleanroom thanks to load transfer from vehicle to vehicle

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 1400 mm, W = 1000 mm, H = 350 mm (without load handling device) L = 1400 mm, W = 1200 mm, H = 600 mm (with load handling device)	Up to +/-10 mm	Max. 1.5 m/s	Conveyor (transfer height: 500 mm)

Payload	Navigation	Drive concept	Power supply
1350 kg without load handling device 1000 kg with load handling device	Laser navigation, fine positioning, laser parking, safe data matrix positioning	Bidirectional operation with drive module from SEW-EURODRIVE Omnidirectional operation on request	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional

Weight	Communication	Safety	Object protection
500 kg without load handling device	Wi-Fi, 5G, VDA 5050	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

- → L100 drive module, bidirectional drive unit
- → TDM80E, pick-up (contactless, point)
- → EXK22, intelligent battery charger
- → MOVISAFE®, Safe Kinematic safety module
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation

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LOGISTICS ASSISTANT FOR ASSEMBLY APPLICATIONS AND PROCESS INTERLINKING



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → Omni-directional manner of driving
- → Application-specific assembly devices such as tool holders, integrated oil pans, and much more besides
- → Load handling by integrated conveyor
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface
- → Reliable load detection

APPLICATION

- → Interlinking various internal process steps such as the linking of workstations or transfer to automated cells
- → Transporting trays and shelves for components and tools
- → Human-machine collaboration, helping staff with functions such as ergonomic lifting, displaying assembly information, etc.
- → Perfect as a mobile workbench for assembly work, even with high process forces

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 1200 mm, W = 860 mm, H = 903.5 mm	Up to +/-10 mm	Max. 1.5 m/s	Belt conveyor
Payload	**Navigation**	**Drive concept**	**Power supply**
300 kg	Laser navigation, fine positioning, laser parking	Omnidirectional operation with drive module from SEW-EURODRIVE	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**	**Safety**	**Object protection**
600 kg	Wi-Fi, 5G, VDA 5050	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

- → Drive module O, omnidirectional drive unit
- → TDM90E, pick-up (contactless, line)
- → EXK24, intelligent battery charger
- → MOVI-DPS®, storage capacitor for power supply
- → MOVISAFE®, Safe Kinematic safety module
- → Brake caster, swivel caster with integrated secure holding brake
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation
- → Sensor module, inductive track guidance with RFID sensor

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MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- For heavy and large loads
- Omnidirectional operation, e.g. for area buffer application
- Integrated lifting mechanism
- Contactless charging on the move
- Free contour navigation with parking function

VDA 5050 interoperable communication interface

APPLICATION

- Specifically for transporting frames/trays with high loads (payload of up to 3000 kg)
- Loosely interlinks process modules such as robot cells or area buffers

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 3800 mm, W = 1100 mm, H = 450 mm	Up to +/-10 mm	Max. 1 m/s	Integrated lifting mechanism (105 mm, stepless)
Payload	**Navigation**	**Drive concept**	**Power supply**
3000 kg	Laser navigation, fine positioning, laser parking, safe data matrix positioning	Omnidirectional operation with drive module from SEW-EURODRIVE	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**	**Safety**	**Object protection**
1370 kg without load handling device	Wi-Fi, 5G, VDA 5050	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

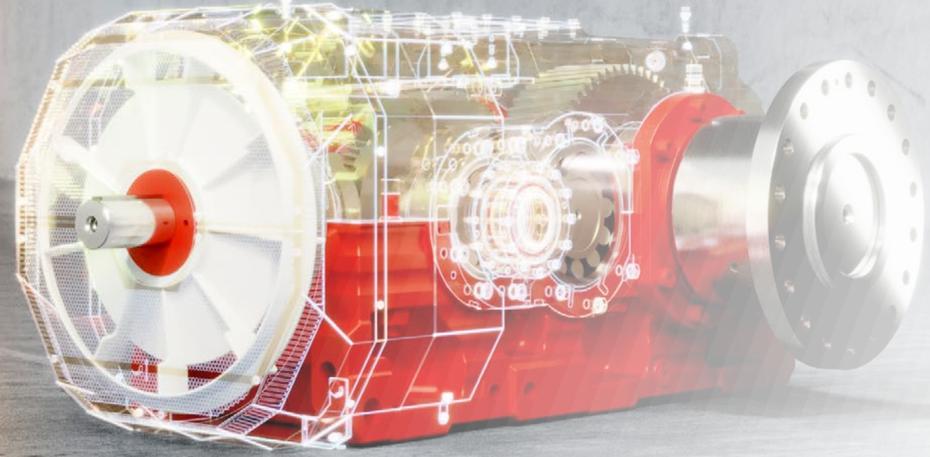
- DO drive module, two omnidirectional drive units
- TDM80E, pick-up (contactless, point)
- EXK24, intelligent battery charger
- MOVI-DPS®, storage capacitor for power supply
- MOVISAFE®, Safe Kinematic safety module
- Brake caster, swivel caster with integrated secure holding brake
- Operator panel, interface module with main switch
- Light module for optical and acoustic signals
- Control module, vehicle controller with status visualization
- Navigation module for free laser-based navigation

NEW AND IMPROVED INDUSTRIAL GEAR BOX

MODULAR DESIGN

LESS MAINTENANCE INTERVALS AND HIGHER PRODUCTION OUTPUTS

RELIABLE HIGH TORQUE RATINGS



X.e SERIES

PRODUCT DESCRIPTION

With 23 finely graduated sizes, the helical and bevel-helical gear units of the X..e series cover the torque range from 7.2 to 500 kNm. The extensive modular program and the large number of predefined additional equipment and options offer a high degree of flexibility for adaptation to the application situation. Regardless of whether you are a plant manufacturer or operator - the X..e series offers the right solution for every requirement.

BENEFITS

Power
Increase in nominal torques even with additional external loads for a reduction in size. Result: lower investment costs and smaller installation space in the plant.

Safety
Installation individual rolling bearings with short delivery times such as thermal design according to simulated ambient conditions. Result: less maintenance intervals and higher plant availability.

Efficiency
A sustainable drive solution thanks to extensive adaptation and optimization options. Result: reduced power loss, lower oil demand, and lower total cost of ownership.

FEATURES

- Independent industrial gear unit platform with **23 sizes**
- **Helical** gear units and **bevel-helical** gear units
- **Single-piece** and **split gear** unit housing
- **Invertible** gear unit housing
- **Universal** mounting positions
- **Distinctive** modular technology
- **Diverse** predefined optional equipment and options
- **Customer-specific** adaptations possible

APPLICATION

Our helical and bevel-helical gear units are used wherever reliably high torques are required.
The modular design with many additional features and options allows the X..e series to be individually adapted to your application-specific requirements.

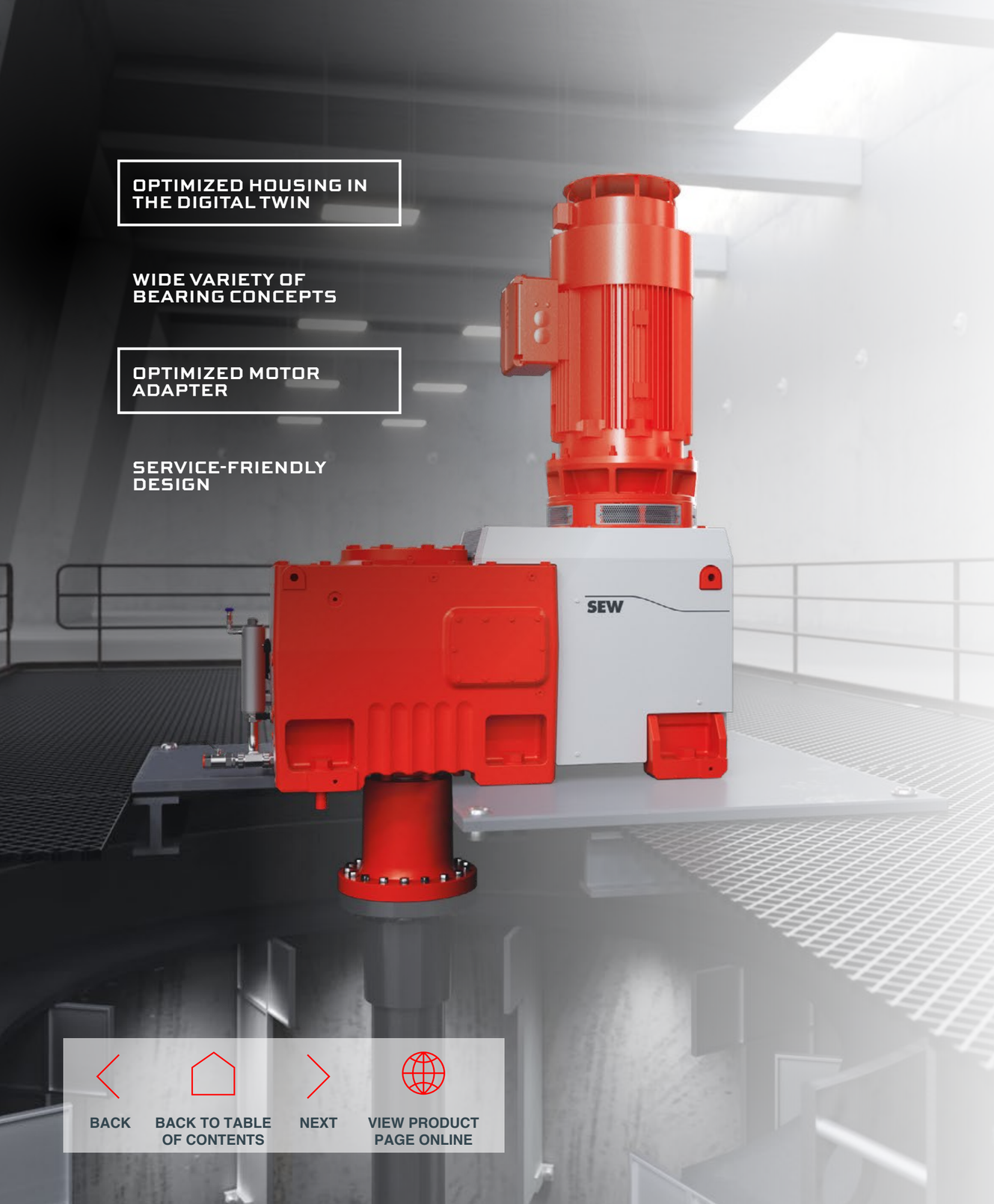
In use worldwide:

- Mining and open pit mining
- Recycling industry
- Crane technology
- Water and wastewater technology
- Steel industry and many more

TECHNICAL DATA

Gear unit design	Stages	Gear ratio i	Nominal torque MN2 kNm
Helical gear unit X.F.100e – X.F.320e	2 to 4 stages	6.3 – 450	0.5 – 248
Bevel-helical gear unit X.K.100e – X.K.320e	2 to 4 stages	6.3 – 450	7.2 – 500
Bevel-helical gear unit* X.T.100e – X.T.250e	3 and 4 stages	12.5 – 450	7.2 – 185

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OPTIMIZED HOUSING IN THE DIGITAL TWIN

WIDE VARIETY OF BEARING CONCEPTS

OPTIMIZED MOTOR ADAPTER

SERVICE-FRIENDLY DESIGN

X.e AGITATOR

PRODUCT DESCRIPTION

Internal pressure lubrication optimizes the supply to the gear unit, while the specially designed split housing and the innovative sealing concept guarantee leak-free operation. Airflow-optimized motor adapters and air baffles ensure maximum heat dissipation and a consistently excellent level of performance. Use X.e agitator and mixer drives in your application. Our machine elements are designed to perform reliably, even in the most challenging applications.

BENEFITS

Power
The housing has been optimized in the digital twin and the shafts made larger so that the drives can support even the heaviest loads.

Safe operation
The fail-safe design ensures with 100% certainty that no oil leaks out.

Easy maintenance
A service-friendly design (including pop-up valves and symmetrically arranged gear unit feet) makes installation and servicing work both simple and safe.

FEATURES

- → No oil leakage, thanks to a **horizontally split housing and a drywell**
- → **Aligned feet and base surface** at the lowest level for easy installation
- → Customization thanks to a **variety of bearing concepts**, depending on the size
- → **Internal oil pump** for safe operation
- → Optimized motor adapter for **safe operation of large motors** and optimum air routing

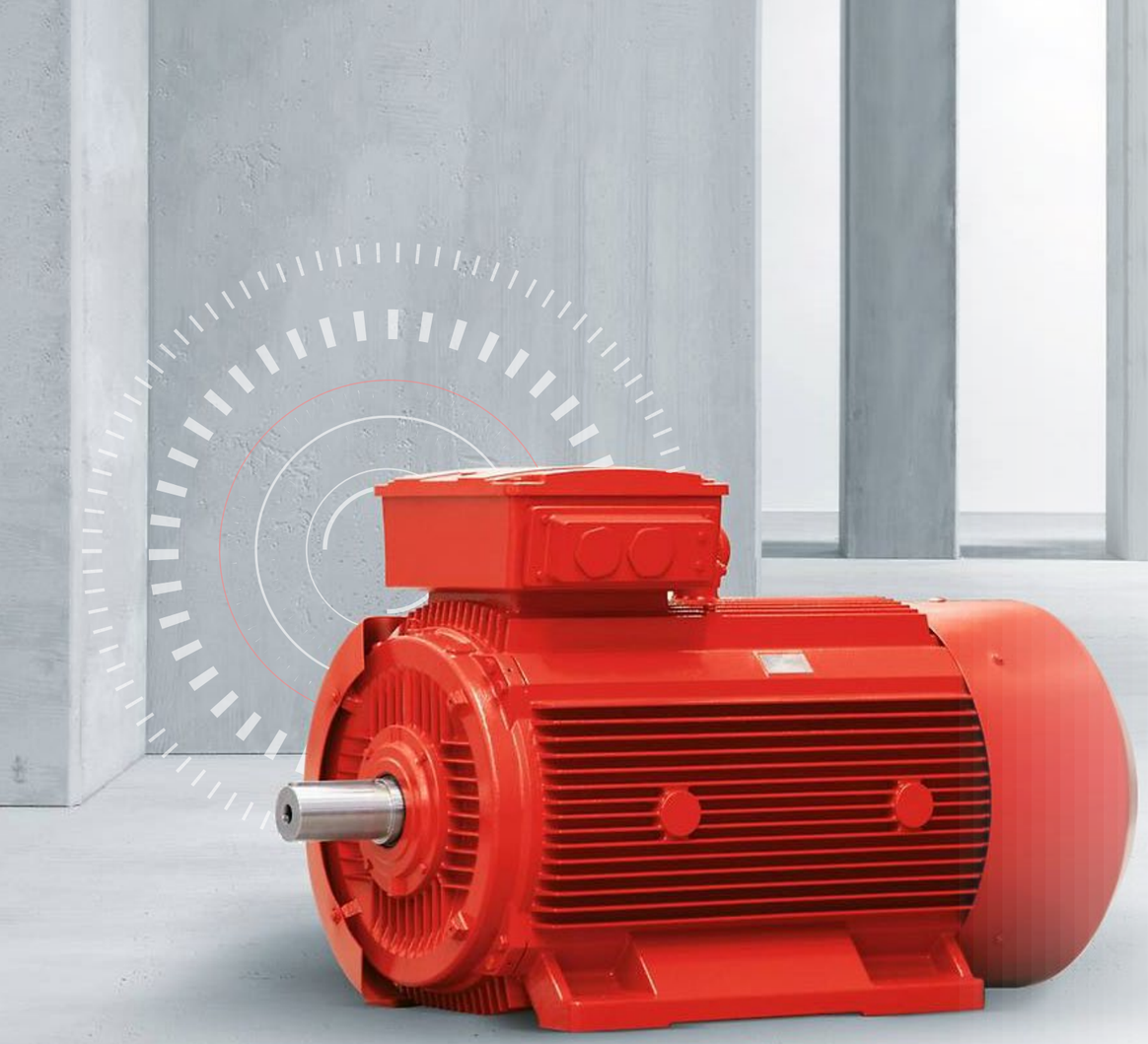
APPLICATION

- → Underground and open-pit mining
- → Recycling industry
- → Food industry
- → Chemical industry

TECHNICAL DATA

Gear unit	Nominal torque	Shaft diameter according to bearing type	Gear ratio
X..220e /HM	117 kNm	Moderate load: 240 mm Heavy load: 240 mm Heavy radial load: 250 mm	20 400
X..240e /HM	165 kNm	Moderate load: 260 mm Heavy load: 260 mm Heavy radial load: 270 mm	20 - 400
X..260e /HM	217 kNm	Moderate load: 280 mm Heavy load: 280 mm Heavy radial load: 290 mm	20 - 400

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DRN MOTOR

PRODUCT DESCRIPTION

With the DR../DRN/DR2.. modular motor systems, we implement millions of drive combinations and move different systems and machines, worldwide.

It is easy to find the ideal energy-efficient motor for your application at SEW-EURODRIVE. The DR../DRN/DR2.. series has a suitable design in its range for the globally applicable efficiency classes IE1 to IE4: DR2S for IE1, DRN.. for IE3 and DRU.. for IE4. Select the power, voltage and frequency within this motor design and you have already taken care of the most important selection criteria.

Are you missing IE2 motors in our range? You don't have to - because the DRN.. motors in IE3 are their perfect successor. The weight and dimensions of the new DRN.. IE3 motors are only marginally different from comparable IE2 motors. And the best thing is: the selling price of a DRN.. motor only differs from that of a DRE.. motor with the same performance in a few cases.

All other motor options are of course available independently of the efficiency class. A comprehensive braking concept and cost-optimized built-in encoders that are completely integrated into the motor ultimately complement the motor range.

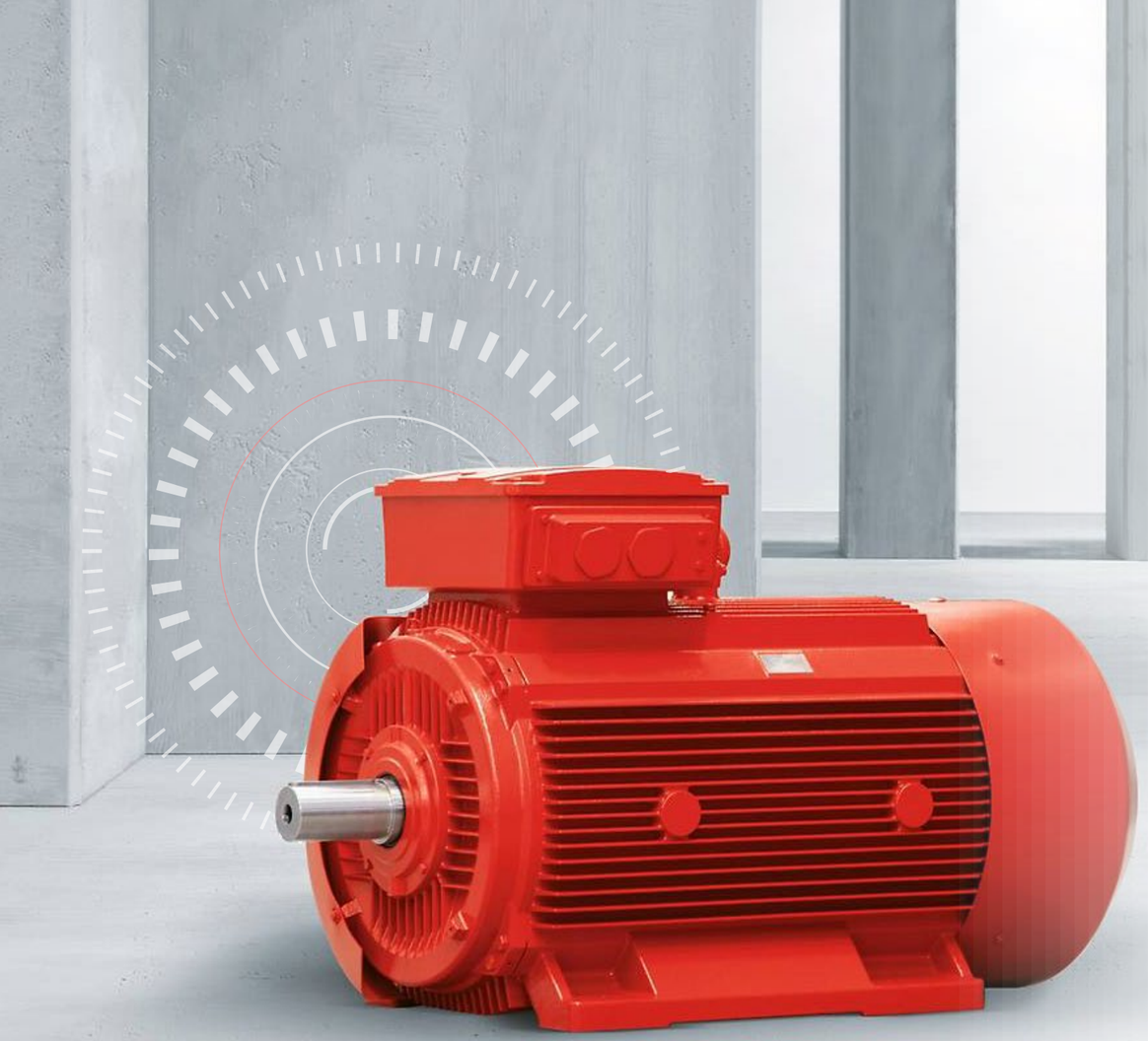
The motors of the DR../DRN/DR2.. series comply with the most important standards worldwide and the various requirements of the local energy efficiency regulations in a power range from 0.09 to 375 kW.

Save time and optimize your motor selection, ordering and logistics processes. As a Global Player, we offer this range of products around the world.

Only half the solution without a gear unit? Then use our sophisticated modular system and combine an AC motor with a helical, parallel shaft, worm, bevel or SPIROPLAN® gear unit of your choice. All of these gear unit types are already available off-the-shelf, combined with gearmotors- optimised in terms of length, robust and perfectly tailored.

For the first time, the size 355 is found as a solo motor in the DRN.. modular system. Combinations with an industrial gear unit, regardless of whether with an adapter directly into the helical or bevel-helical gear unit or the complete drive package on the steel swing arm, are the best possibilities for using an IEC solo motor.

Of course, we also supply the right inverter technology for the controller and control. We develop and produce the drive electronics ourselves to the highest quality standards so that they are perfectly tailored to our motors and gearmotors, and to your application.



DRN MOTOR

BENEFITS

Benefit from energy efficiency as the DR../DRN/DR2. series offers an appropriate design for each efficiency class and can therefore be used anywhere in the world.

Extend flexibility as the DR../DRN/DR2. modular motor system makes millions of drive combinations possible for you - individually tailored to your requirements.

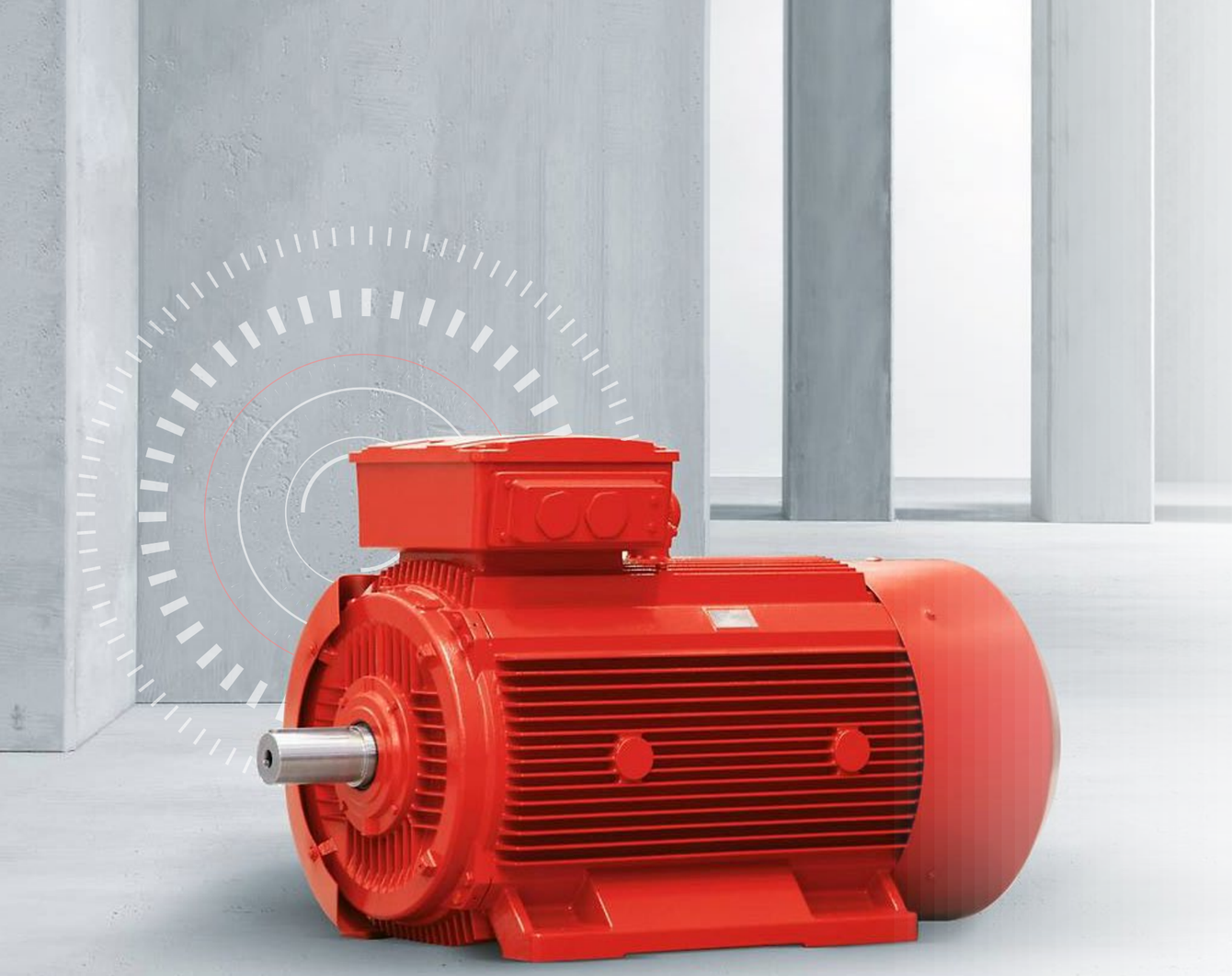
Simpler to select the right motor because our range of motors comprises over 30 performance levels, which means there is a suitable motor for practically every application.

FEATURES

- → **DR../DRN/DR2..** motors support all global standards and norms
- → Motors for efficiency classes **IE1 to IE4**
- → **Compact design** saves space and costs
- → **Significant time savings** thanks to optimized processes in motor selection, order processing, and logistics
- → **Future-proof,** also as regards environmental protection (standards)
- → **The "global motor"** combines many energy efficiency regulations and laws in one design: the DR.. series
- → **Operating modes** S1, S3/15%, S3/25%, S3/40%
- → **Reduction in operating costs** when using energy-efficient motors; our energy-efficient motors conform to the efficiency classes
  - Standard Efficiency (IE1)
  - High Efficiency (IE2)
  - Premium Efficiency (IE3)
  - Super Premium Efficiency (IE4)
- → **Comprehensive braking concept and combinations** i.e. up to three different brake sizes per motor size featured in the range
- → **Cost-optimized built-in encoders** fully integrated into the motor

APPLICATION

- → Can be used worldwide in all industries
- → Logistics conveyor belts of all sizes
- → Lifting applications
- → Applications that require control accuracy
- → Applications that require a mechanical fail-safe brake
- → Positioning tasks with integrated or mounted encoders



DRN MOTOR

TECHNICAL DATA

	Frequency 50 Hz	Frequency 60 Hz	
Connection	D / Y	D / Y	YY / Y or DD / D
Standard voltages V	230/400 V or 380 / 660 or 400 / 690	220 / 380 or 380 / 660, 254 / 440, 266 / 460 or 277 / 480, 440 / – or 460 / – or 575 / –	220 / 440, 230 / 460
IE3 global motor Standard voltages V	220 – 240 / 380 – 415, 220 – 230 / 380 – 400 or 380 – 400 / 660 – 690, 380 – 415 / 660 – 725	254 – 277 / 440 – 480 or 254 – 266 / 440 – 460, 440 – 480 / –	

IE grade	Number of poles	Motor type Size	at frequency of 50 Hz	at frequencies of 60 Hz and 50/60 Hz	
			Power kW	Power kW	Power hp
IE1	2-pole	DR2S..63MS – 132S	0.18 – 9.2	0.18 – 9.2	0.25 – 12.3
	4-pole	DR2S 56M – 225S DR2S 63M – 132M	0.09 – 45	0.09 – 45	0.12 – 60
	6-pole		0.09 – 5.5	0.09 – 5.5	0.12 – 7.5
-	4/2-polig	DR2S 63MS – 80M DRS 90M – 180L DR2S	0.15/0.20 –	0.15/0.20 –18.5/20	-
	8/2-polig	71MS – 80M DRS 90M – 132M	18.5/20 0.044/0.2 – 1.1/4.6	0.044/0.2 – 1.1/4.6	-
	8/4-polig	DR2S 71MS – 80MS DRS 90 – 225M	0.1/0.18 – 18/34	0.1/0.18 – 18/34	-
IE2	4-pole	DRE 71SJ4 – 100MJ4**	0.37 – 4.0	-	-
IE3	2-pole	DRN 63MS – 132S	0.18 – 7.5	0.18 – 7.5	0.25 – 10
	4-pole	DRN 63MS – 355ML DRN	0.12 – 355	0.12 – 375	0.15 – 500
	6-pole	63MS – 160M DRN	0.09 – 7.5	0.09 – 7.5	0.10 – 10
	8-pole	71MS – 112M	0.09 – 1.5	0.09 – 1.5	0.10 – 2
IE4	4-pole	NEW: DRU 90S – 355ML	0.75 – 355	0.75 – 375*	1 – 500*
		DRU 71SJ4 –100LJ4**	0.18 – 4.0	–	–

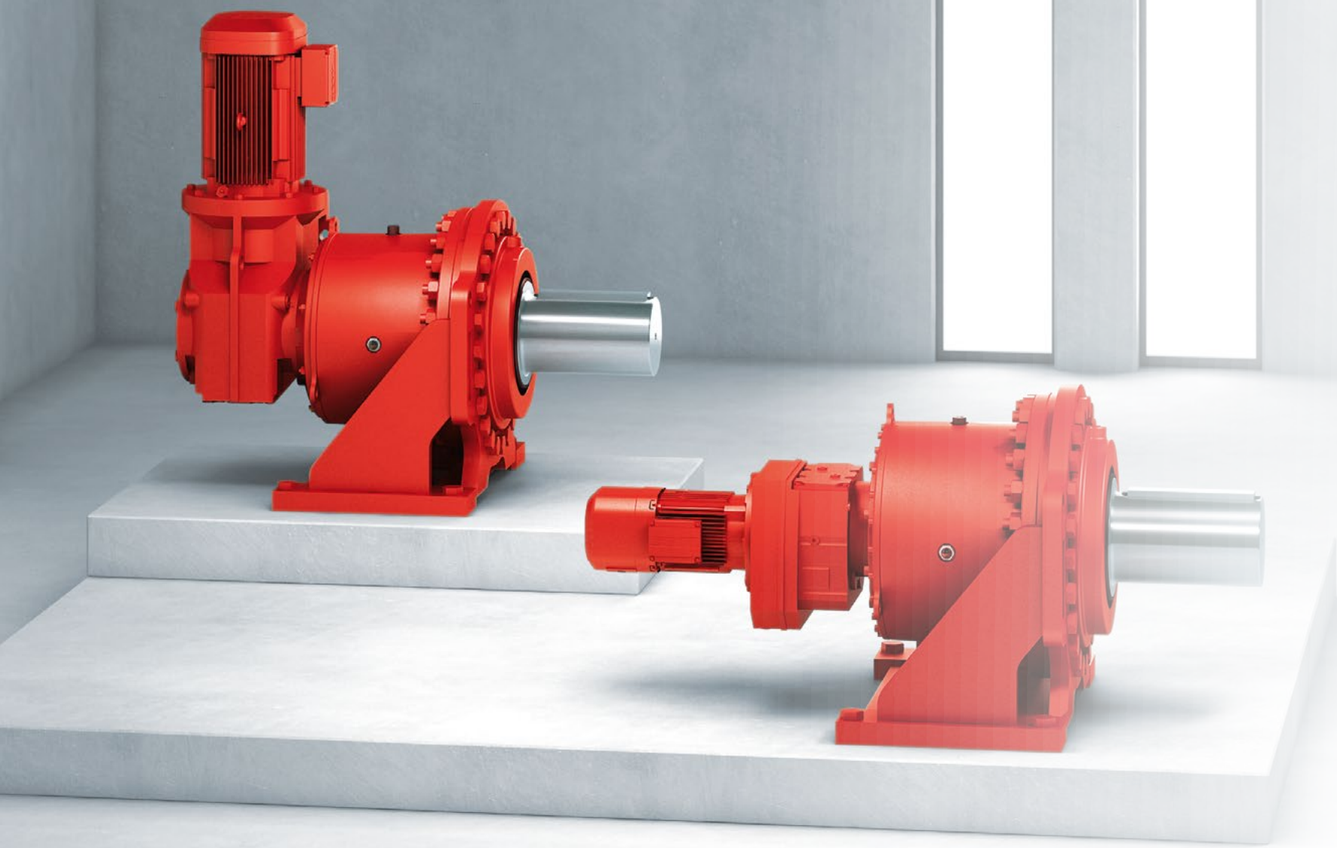
* 60 HZ
** LSPM technology

HIGH PERMITTED RADIAL LOADS

SUITABLE FOR SMALL INSTALLATION SPACES

TRANSMISSION OF HIGH TORQUE RATINGS

MAXIMUM FLEXIBILITY



BACK BACK TO TABLE OF CONTENTS NEXT VIEW PRODUCT PAGE ONLINE

P SERIES

PRODUCT DESCRIPTION

The compact construction as a planetary gear unit and a primary gear unit is a feature of our industrial gear unit P series. They are used in systems which demand low speeds and a high torque.

Process engineering plants which run slowly depend on low output speeds and a high torque. This includes mixers and rotary filters. In addition to these features, users and outfitters of comparable systems demand reliable drive components.

With the industrial gear units of the P series you receive powerful and reliable planetary gearmotors which can be supplied at short notice in standardized versions, depending on the size.

Thanks to our modular concept, you have access to a comprehensive range of optional equipment. Another feature of the space-saving industrial gear units is the economical price-performance ratio. So you are best-equipped for all applications.

Industrial planetary gear units of the P series receive powerful support via an upstream gearmotor. Additional components which demand a lot of space and increase costs are thus a thing of the past. This means couplings, intermediate flanges and adapter flanges.

You will also find a suitable primary gear motor at SEW-EURODRIVE. Just use the entire range of our gearmotor modular concept and combine for different purposes.

BENEFITS

Save on installation space
through the short and compact mounting position of the industrial planetary gear units.

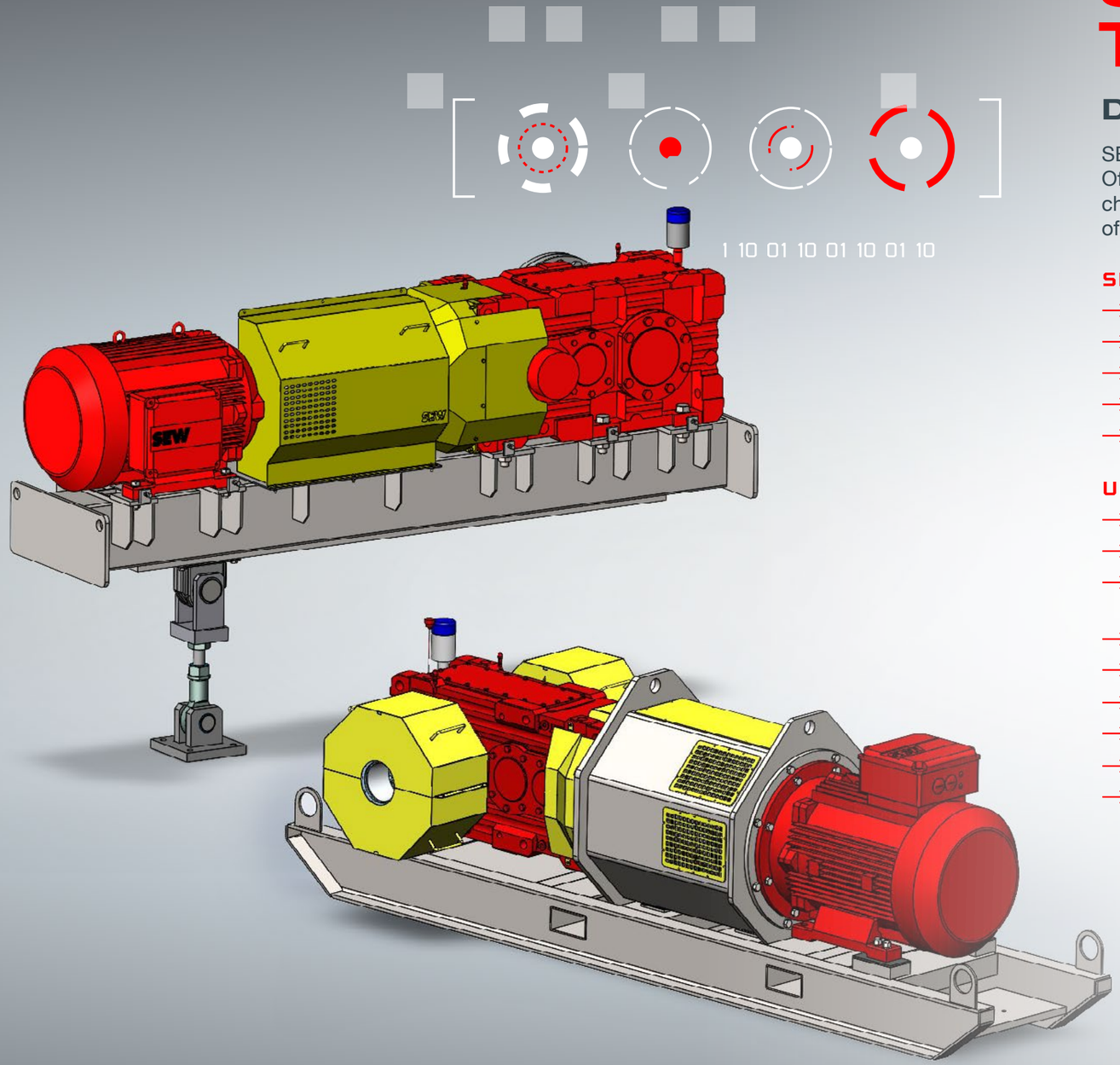
Reduce costs
by having an upstream gearmotor and by no longer having cost-intensive couplings, intermediate flanges and adapter flanges.

FEATURES

- → **Transmission of high torque ratings** for powerful movement of large quantities
- → Especially **compact design** for limited installation space
- → High permitted **radial loads**
- → **Upstream gearmotors** in helical version and bevel-helical version which can be combined with the planetary gear unit

TECHNICAL DATA

Gear unit type	Stages	Gear ratio i	Nominal torque MN2 kNm
P.RF helical gear unit..:	4 and 5-stage	100 – 4 000	25 – 631
P.KF bevel-helical gear unit..:	5-stage	140 – 4 000	25 – 631



SEW-EURODRIVE TrueDNA

DESCRIPTION

SEW-EURODRIVE's TrueDNA affords you with a turnkey solution to your industrial drive needs. Offering a high degree of adaptation flexibility, covering a broad range of power, torque and speed characteristics. The TrueDNA package can be easily adapted and integrated to drive a variety of equipment in a number of heavy industries.

SEW-EURODRIVE'S:

- → Most innovative Xe Series gearbox
- → Specified flexible / fluid coupling
- → IEC Motor
- → Rigid flange coupling
- → Your choice of a bell / swing / drop-in base

UNIQUELY OFFERS:

- → Offer mostly stocked items
- → Reduced lead times: approx 6-8 weeks from order
- → Prefilled with lubrication of choice or SEW Eurodrive's latest oil technology that offers extended lifetime, enhanced lubrication properties and improved efficiency transfers
- → Extended warranty at no additional cost
- → Latest advances and technology available to market
- → Unrivalled local stockholding
- → Complimentary maintenance training for end user of the drivetrain of choice
- → Competitively priced
- → Delivered to site

BACK BACK TO TABLE OF CONTENTS NEXT



PIVOT & WHEEL DRIVES

PRODUCT DESCRIPTION

The parallel shaft gearmotors of the F37E.. series and the worm gear reducers of the S87E.. series, developed for the irrigation market, are the perfect solutions for reduced installation spaces and maintenance savings. The drives can be used in a wide variety of applications, even under the most severe working conditions.

Committed to providing technical support and customised training that will maximize equipment performance and lifespan, you can be sure of increased productivity and profitability in your application.

TECHNICAL DATA

	GEARMOTOR	REDUCER
Type	F37E..	S87E
Possible applications	Perfectly suited for the agricultural and livestock market, in irrigation systems, acting in the movement of the system's central pivot.	Perfectly suited for the agricultural and livestock market, in irrigation systems, acting in the movement of the wheel of the system.
Characteristics	› Geared motors with helical gears and parallel shafts › Improved sealing system › Specially developed for irrigation systems central pivot › Exclusive SEW-EURODRIVE modular system. › The following project versions are available: - Mounting with feet - Solid or hollow shaft	› Worm reducers and orthogonal shafts › Bearings with greater overload capacity › Improved sealing system › Specially developed for irrigation systems wheel › Exclusive SEW-EURODRIVE modular system › The following project versions are available: - Standard or extended axle - Configuration for STANDARD or EXTRA HEAVY load
Reduction range - i	24.3- 29.9	50.0 - 52.0
Output torque	300Nm *	3.500Nm
Performance class	IR3	
Motor power range kW mounting via AM adapter	0.75 - 1.10	
Nominal frequency - Hz	50, 60 and 50/60	
Degree of protection	IPW56	

*DRN® motors meet Premium Performance requirements and are identified as IR3 according to ABNT NBR 17094-1.

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BUSINESS DEVELOPMENT AFTER SALES

Melvin Govender

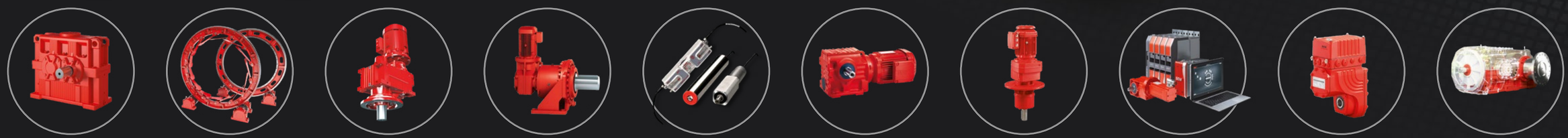
mgovender@sew.co.za

SEW EURODRIVE

THANK YOU

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CONNECT WITH US

Our skilled Business Development staff can assist with surveys, application solutions, product support and a range of after sales services. Such a unique offering equips our clients with specialist product and application knowledge, allowing SEW-EURODRIVE to provide the most efficient and cost-effective and optimized solution possible for clients' needs.

SEW EURODRIVE



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SEW EURODRIVE

AFRICA
PRODUCT RANGE



Get started

Hover over map markers to view locations












www.sew-eurodrive.co.za

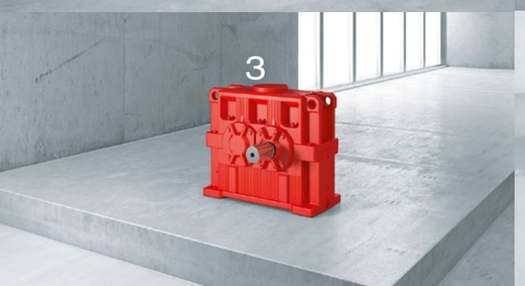
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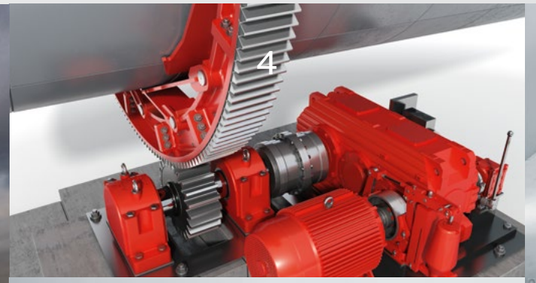
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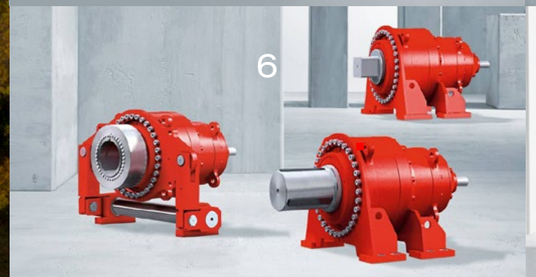
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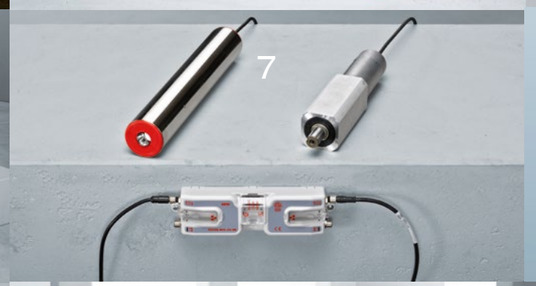
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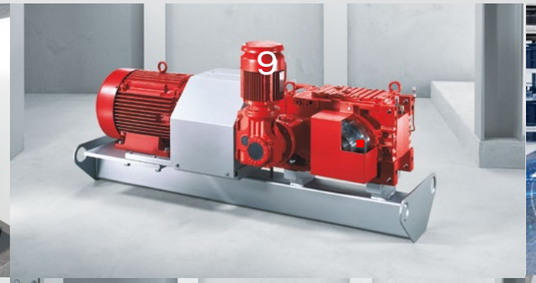
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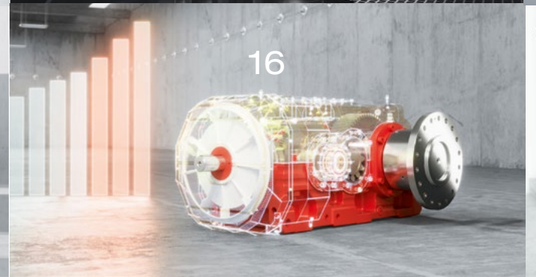
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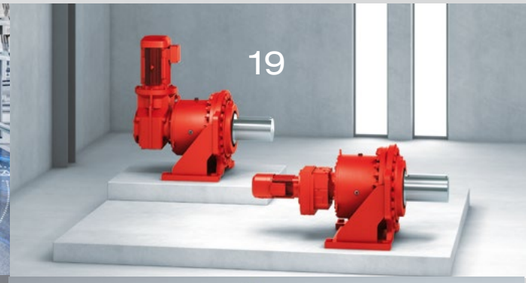
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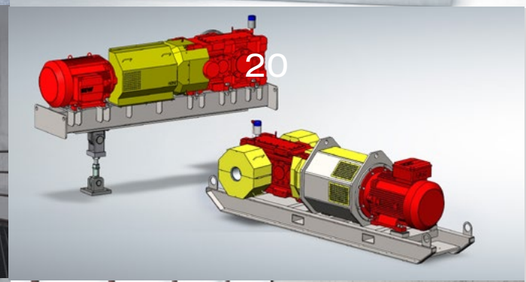
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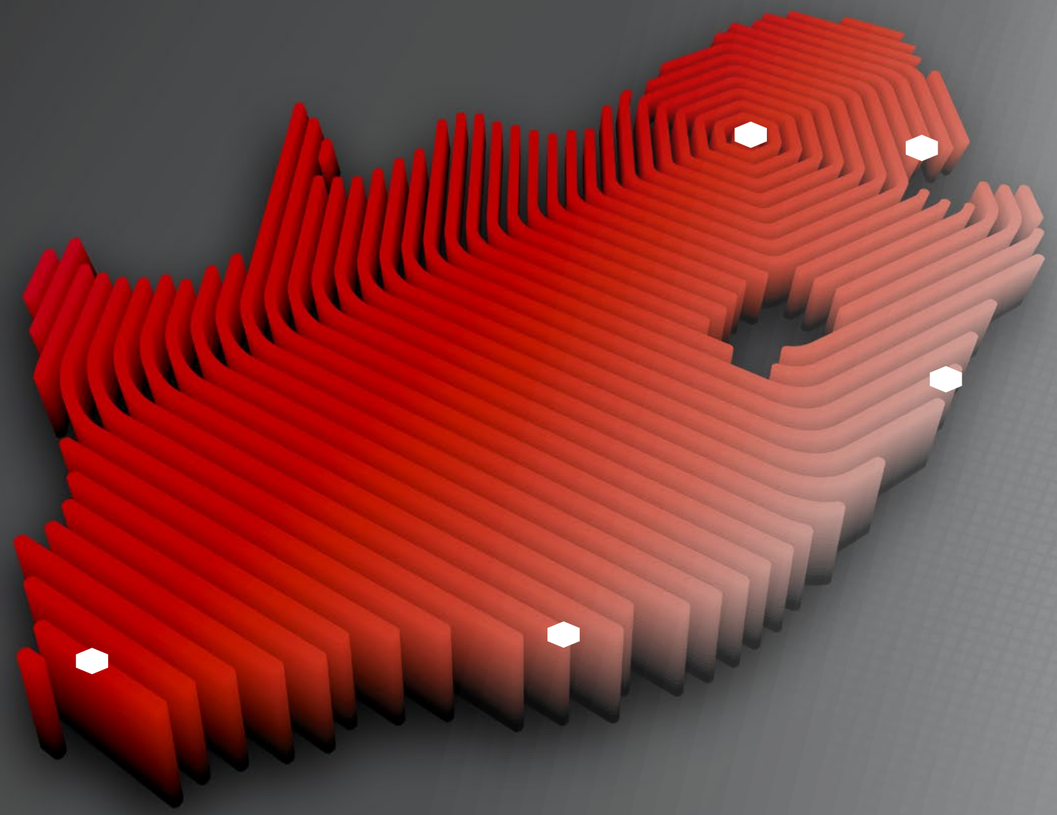
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BACK NEXT

Hover over map markers to view locations



ABOUT US

SOUTH AFRICAN HISTORY

Established in 1986

4 Assembly facilities:
JHB, Mbombela, Cape Town and Durban

1 Service and distribution facility in Gqeberha

B-BBEE level 3

Number of employees: 250

Industries:

- Mining
- Food and Beverage
- Automotive
- Airport and Logistics
- Petrochemical
- Water and Wastewater
- Sugar
- Ports and Harbours
- Paper and Pulp
- Construction and Material Handling

GEARED MOTOR RANGE

GEARMOTORS FROM THE SEW-EURODRIVE MODULAR SYSTEM

- The combination options for our gearmotors are as diverse and extensive as their possible uses.
- Thanks to the complete modular system developed by SEW-EURODRIVE, our customers have access to millions of options and can find their customized product solution for any requirement.
- The objective of the modular system is to be able to combine as few components as possible into the greatest possible range of end products.
- Gearmotors from SEW-EURODRIVE are broken down into the following categories: standard gearmotors, servo gearmotors, electrified monorail system gearmotors, variable-speed gearmotors, stainless steel gearmotors, and explosion-proof gearmotors.

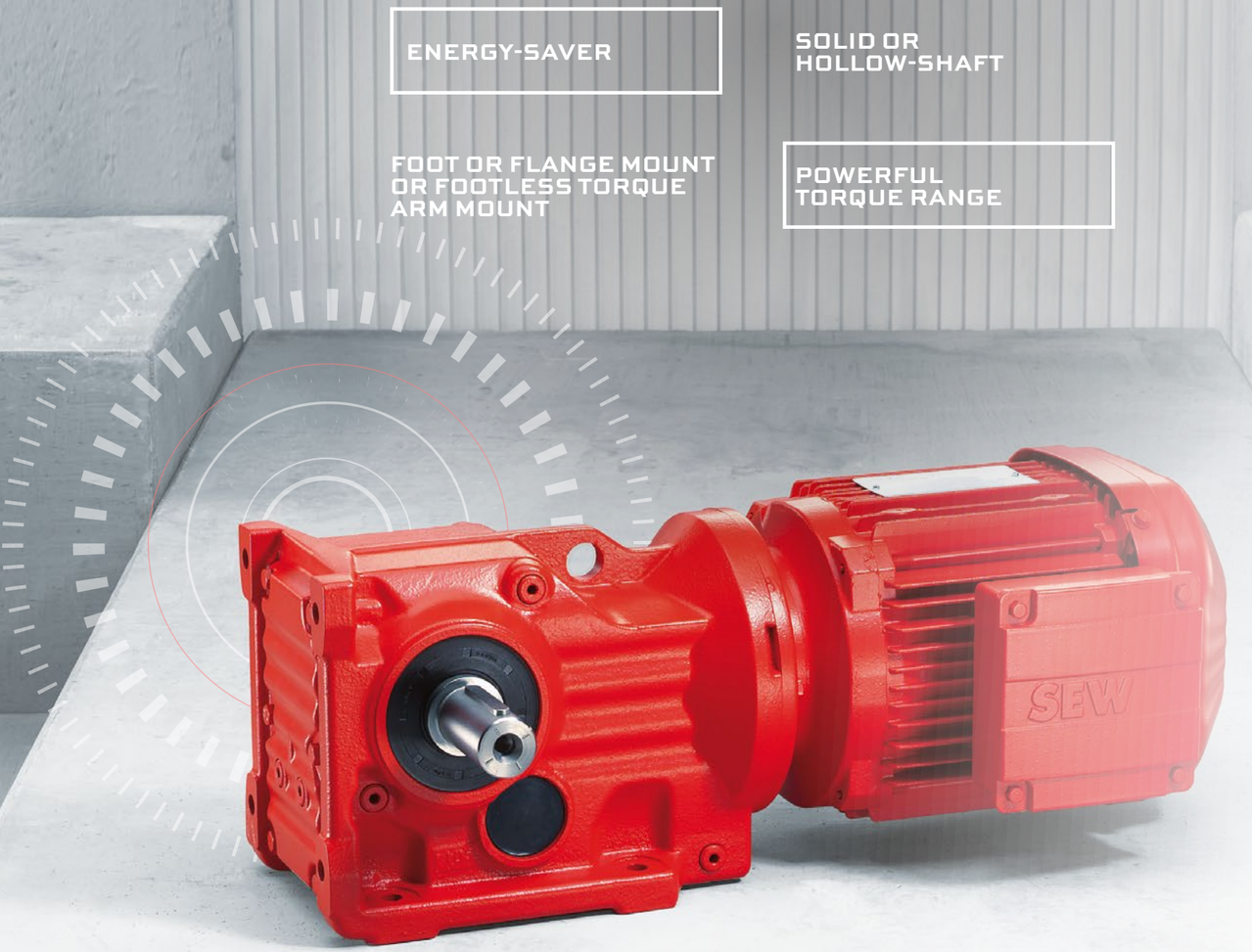
CONVEYOR LINES, LIFT AND LOWER LOADS

AIRPORTS

BEVERAGE INDUSTRY

INTRALOGISTICS

AUTOMOTIVE INDUSTRY



PRODUCT DESCRIPTION

The compact design of all our gear units is most obvious in our helical-bevel gear units. This property is particularly interesting, for example, for machine applications with limited space available. Here, you need powerful drive technology with a compact design. This is just the right environment for our helical-bevel gear units with a torque range from 80 to 53,000 Nm.

With their high efficiency in both directions of rotation and at any input speed, these right-angle gear units are very energy-efficient. Their high-endurance gearing is low-wearing For precise positioning tasks, you can use the K series gear units with reduced backlash.

The particularly sturdy sizes K..39 and K..49 complete our range of two-stage helical-bevel gear units. They set the standards together with sizes K..19 and K..29: four sizes allow for torques from 80 Nm to 500 Nm.

Only half the solution without a motor? Then use our modular concept and combine the gear units of the K series with an AC motor to a K..DR.. helical-bevel gearmotor, or with a servomotor to a K..CMP helical-bevel servo gearmotor of your choice. Or simply choose the separate AC motor or servomotor that meets your requirements.

BENEFITS

More cost efficiency
over the entire service life due to wear-free gearing and a long, low-maintenance operating life

High performance
in a compact design offered by 16 sizes with torque ratings between 80 Nm to 50,000 Nm

More energy efficiency
due to the high efficiency degree in both directions of rotation and at any input speed

Real lightweights
are the K..19 and K..29 sizes as their housing is made of aluminum

APPLICATION

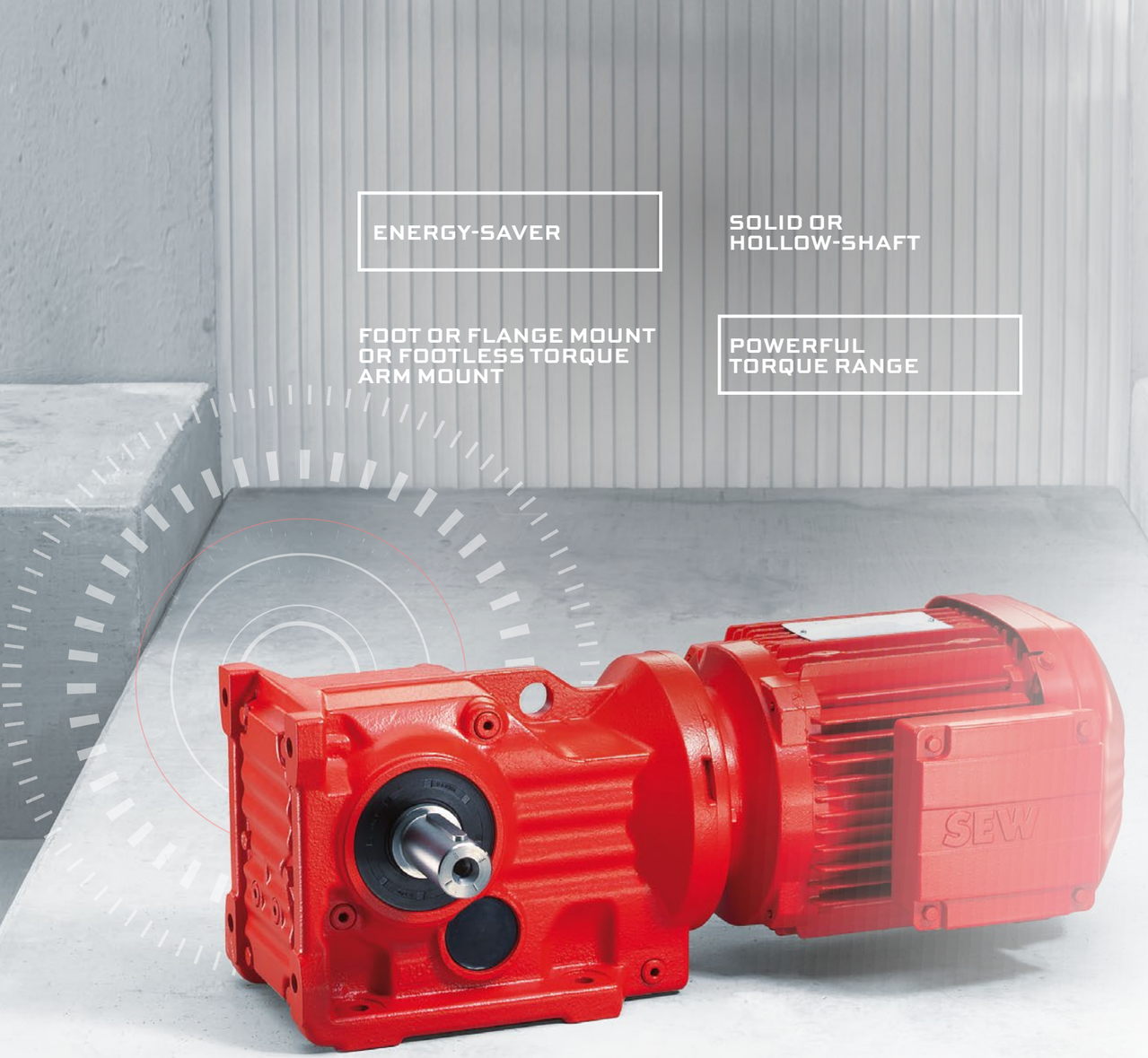
- → Pallet conveyors
- → Belt conveyors
- → Chain conveyors
- → Hoists and lifting stations
- → Scissor lift tables
- → Freight elevators
- → Travel and hoist drives in stacker cranes

ENERGY-SAVER

SOLID OR HOLLOW-SHAFT

FOOT OR FLANGE MOUNT OR FOOTLESS TORQUE ARM MOUNT

POWERFUL TORQUE RANGE



FEATURES

→ **Helical-bevel gear units (two and three stages)**

- High efficiency
- Gearing with high fatigue strength
- Long, low-maintenance operating life
- Can be combined with our complete motor portfolio

→ **Sizes K..37 to K..187 (three stages)**

- Double gear units for very small output speed also available
- Reduced backlash variant
- Available variants:
  - Foot- or flange-mounted
  - B5 or B14 flange-mounted
  - Solid shaft or hollow shaft
  - Hollow shaft with keyed connection, shrink disk, splined hollow shaft, or TorqLOC®

→ **Sizes K..19, K..29 and K..39, K..49 (two stages)**

- Low-loss, two-stage design with a high gearing efficiency of over 90%
- The aluminum housing of sizes K..19 and K..29 makes them particularly lightweight
- The sizes K..39 and K..49 are particularly sturdy and torsionally stiff due to the gray-cast iron housing
- Three base strips ensure an optimum connection to the customer machine even in critical mounting situations
- Available variants:
  - Foot- or B5 flange-mounted
  - Solid shaft or hollow shaft
  - Solid shaft or hollow shaft
  - Hollow shaft with keyed connection, shrink diskor TorqLOC® hollow shaft mounting system

TECHNICAL DATA

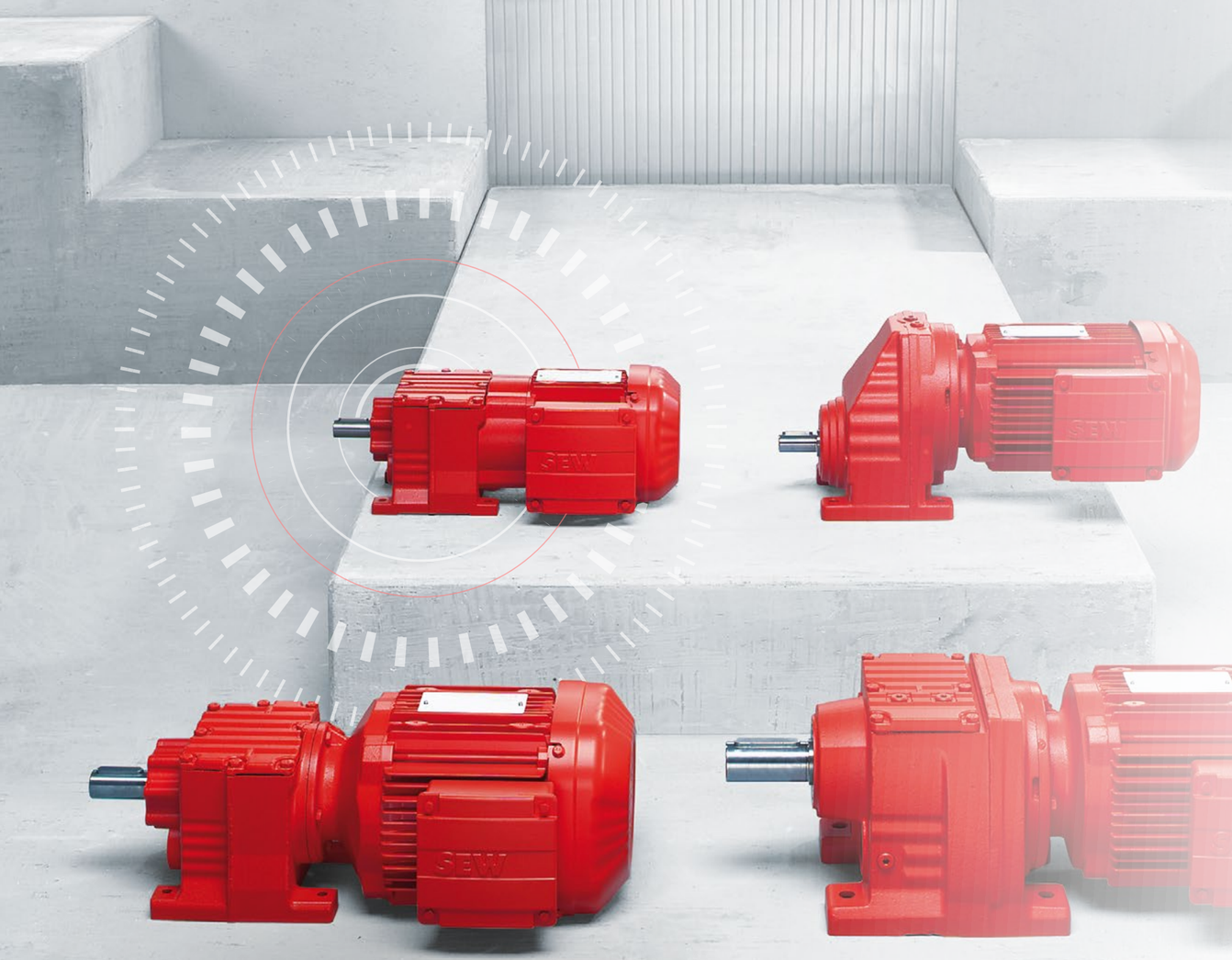
K SERIES / SIZES 37 / 47 / 57 / 67 / 77 / 87 / 97 / 107 / 127 / 157 / 167 / 187 (THREE STAGES)

Gear unit ratio	i	3.98 – 197.37
Double gear unit reduction ratio	i	94 – 32 625
Max. output torque	Nm	200 – 53 000*
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 90

*Also with reduced backlash

K SERIES / SIZES 19 / 29 / 39 / 49 (TWO STAGES)

		K..19	K..29	K..39	K..49
Gear unit ratio	i	4.50 – 58.68	3.19 -71.93	2.81 – 58.24	4.0 – 75.20
Max. output torque	Nm	80	130	300	500
Motor power range (Mounting via AM motor adapter)	kW	0.12 -1.1	0.12 – 2.2	0.12 – 4.0	0.12 – 7.5



LONG-TERM OPERATION

DURABLE IN HARSH CONDITIONS

FOOT AND/OR FLANGE MOUNTED

CLOSELY SPACED TORQUE STEPS

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PRODUCT DESCRIPTION

Helical gear units are the "hidden classics" in our gear unit portfolio: 6 single-stage and 15 two- and three-stage frame sizes cover a torque range from 50 to 20 000 Nm. This gear unit series is also far ahead in terms of gear unit ratios: from i = 1.30 to i = 289.74, in double gear units even i = 27 001. Torque ratings and gear unit ratios this finely stepped are hard to find in the market.

The demand for high output speeds or low weight is met by the R gear units as well, of course. Always with a high level of efficiency, our helical gear units offer an optimum ratio between torque output and installation space. This means: a helical gear unit almost always fits your application.

Only half the solution without a motor? Then use our modular concept and combine the gear units of the R series with an AC motor to a R..DR.. helical gearmotor, or with a servomotor to an R..CMP helical servo gearmotor of your choice. Or simply choose the separate AC motor or servomotor that meets your requirements.

BENEFITS

Comprehensive offer
because 6 single-stage and 15 two- and three-stage frame sizes offer finely stepped torque ratings and gear ratios

Easy combination
because you can easily combine your helical gear unit with an AC motor or a servomotor of your choice from our modular motor system

FEATURES

- **Helical gear units** with extended output bearing hub
- Specifically designed for **agitators**
- **Ten frame sizes:**
  - Offering gear unit ratios up to i = 289.74
  - Allowing for high overhung and axial loads as well as bending moments

APPLICATION

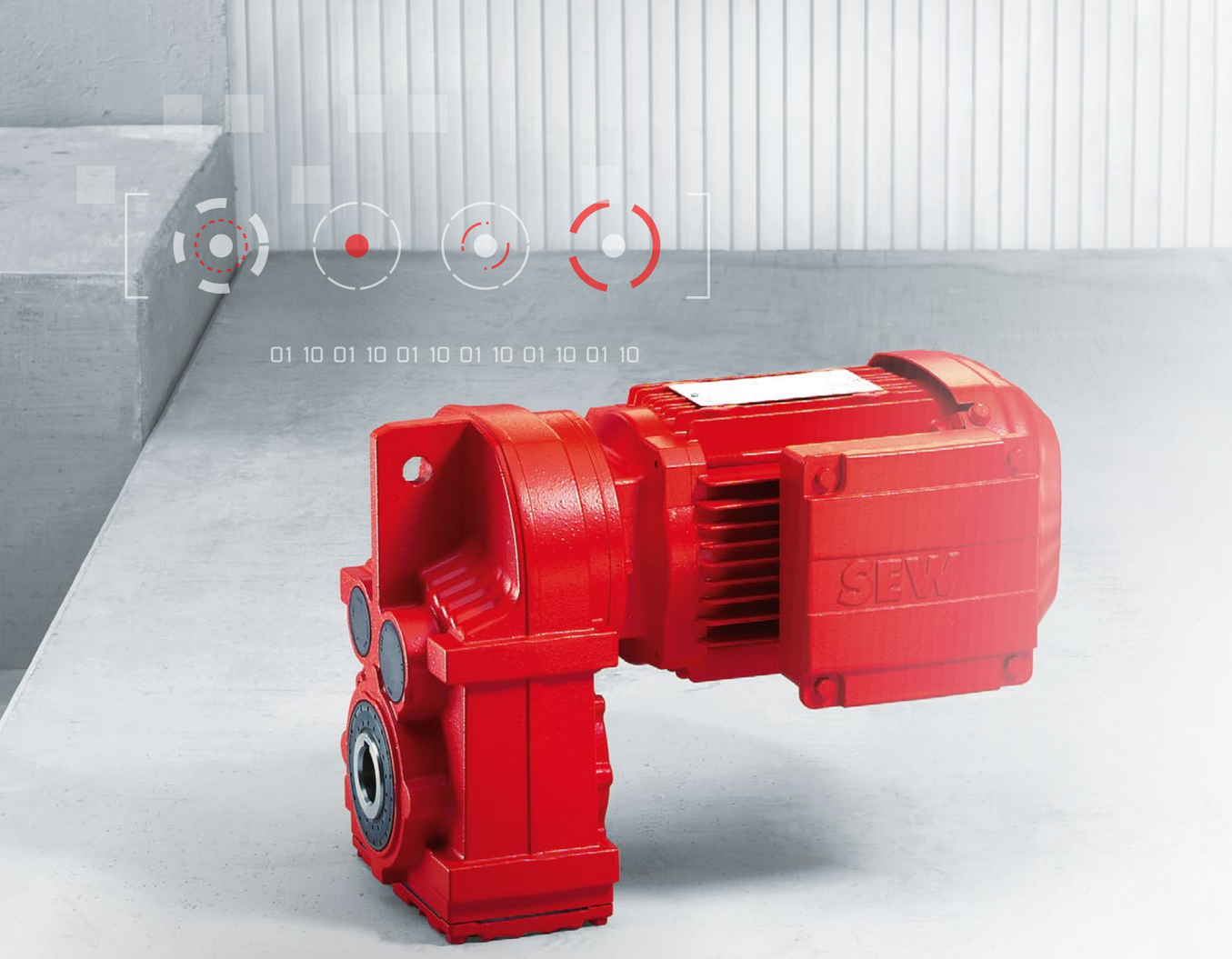
- Agitators
- Blenders
- Mixers
- Kneaders

TECHNICAL DATA

SIZES 57 / 67 / 77 / 87 / 97 / 107 / 127 / 137 / 147 / 167

Gear unit ratio	i	4.29 – 289.74
Double gear unit reduction ratio	i	134 – 27 001
Max. output torque	Nm	450 – 20 000
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 160

CLICK TO NEXT PAGE...



COMPACT, SLIM DESIGN

BROAD POWER RANGE

VARIETY OF MOUNTING POSITION OPTIONS

AVAILABLE IN 11 FRAME SIZES

BACK BACK TO TABLE OF CONTENTS NEXT VIEW PRODUCT PAGE ONLINE

PRODUCT DESCRIPTION

One of our best gear units for limited installation space. A wide range of mounting positions and variants enable a broad spectrum of applications even under difficult installation conditions – without having to compromise on the performance. And what applies to many of our gear units: long operating lives without maintenance and wear-free gearing with a high fatigue strength.

With a high torque rating from 130 Nm to 20,000 Nm, our parallel-shaft helical gear units offer great performance in many conveying and processing applications. You can choose from foot-, flange- or shaft-mounted options. For precise positioning tasks, our parallel-shaft helical gear units are available with reduced backlash.

Only half the solution without a motor? Then use our modular concept and combine the gear units of the F series with an AC motor to a F..DR.. parallel-shaft gearmotor, or with a servomotor to an F..CMP parallel-shaft helical servo gearmotor of your choice. Or simply choose the separate AC motor or servomotor that meets your requirements.

BENEFITS

Low space requirement due to a slim and compact design

Wide range of applications thanks to 11 frame sizes (27 to 157) and numerous variants for very different requirements

Always a powerful performance even in reduced backlash design with output torques from 200 Nm to 18,000 Nm

FEATURES

- **Slim design** for limited installation space
- Also available with **reduced backlash**
- **Available variants:**
  - Foot- or flange-mounted
  - B5 or B14 flange-mounted
  - Solid shaft or hollow shaft
  - Hollow shaft with keyed connection, shrink disk, splined hollow shaft, or TorqLOC®

APPLICATION

- Conveyor applications
- Chain conveyors
- Process applications
- Presses
- Extruders
- Screw conveyors
- Gantry cranes

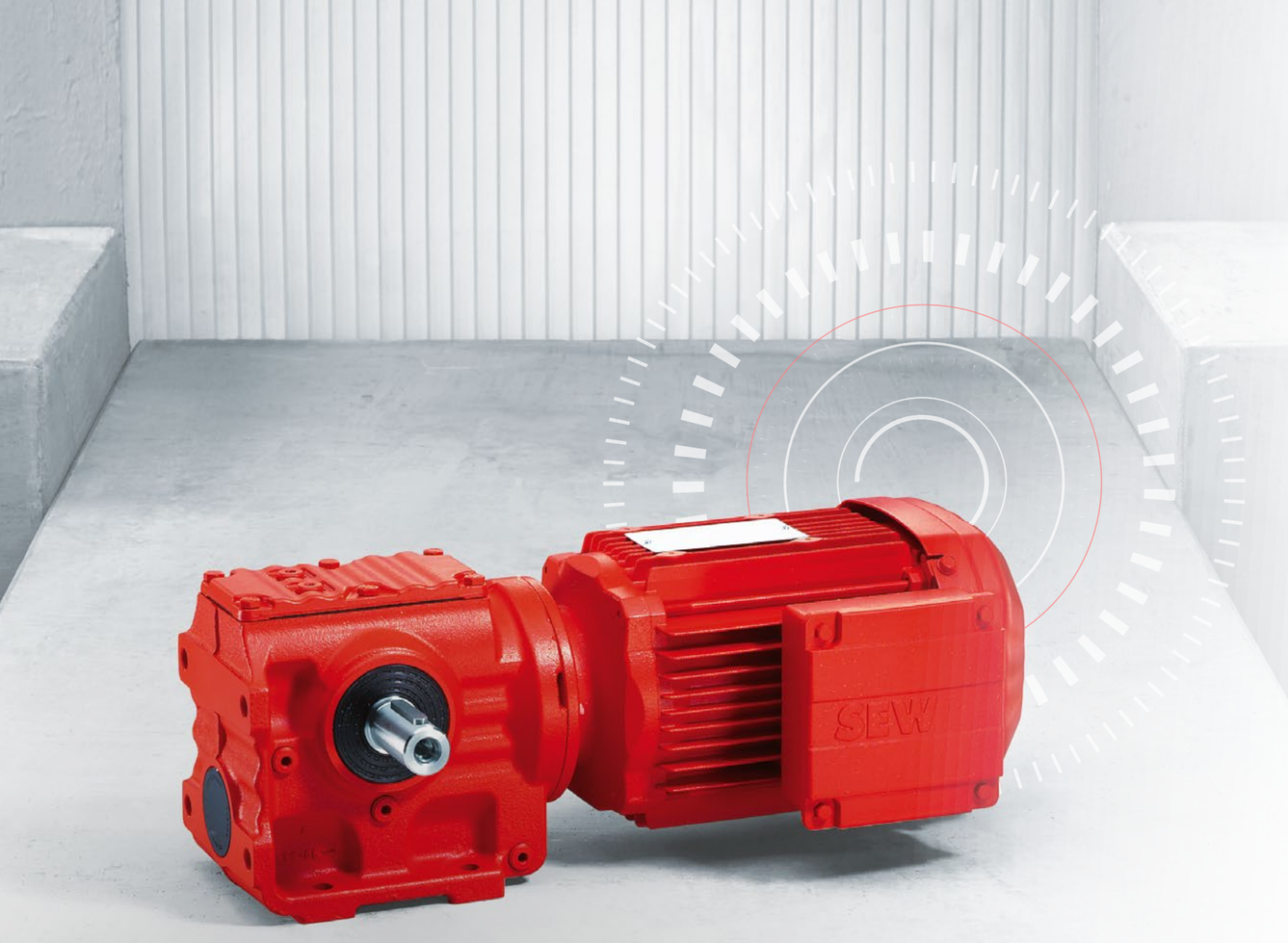
TECHNICAL DATA

F SERIES / SIZES 27 / 37 / 47 / 57 / 67 / 77 / 87 / 97 / 107 / 127 / 157

Gear unit ratio	i	3.77 – 281.71
Double gear unit reduction ratio	i	87 – 31 434
Max. output torque	Nm	130 – 20 000*
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 200

*Also with reduced backlash

CLICK TO NEXT PAGE...



LOW PROCUREMENT COSTS

LOW-NOISE OPERATION

HIGH PERMITTED OVERHUNG LOADS

REDUCED TORQUE SHOCKS

PRODUCT DESCRIPTION

While their cost-effectiveness is due to their simple design, custom coordination options for torque and speed ensure our helical-worm gear units are compact for ease of installation. Use S series helical-worm gear units as a cost-effective solution for meeting basic requirements in your machine or plant applications.

Adding in a helical gear stage means that significantly higher efficiency can be achieved than when using plain worm gear units. The linear power transmission makes these helical-worm gear units exceptionally smooth-running and low-noise. Why? Power is transmitted to the input shaft via the worm shaft and worm gear in a process that reduces torque impulses and facilitates low noise levels.

The torque range extends from 92 to 4000 Nm. For the new S..7p it is 105 Nm to 4300 Nm.

BENEFITS

Space-saving installation
thanks to custom coordination options for torque and speed in all seven sizes

High efficiency
thanks to the simple design of the helical-worm gear unit

Low-noise operation
because the linear power transmission attenuates torque impulses on the drive shaft

FEATURES

- → Much greater efficiency than plain worm gear units thanks to **helical-worm combinations**
- → Very **low-noise** operation
- → **Available designs:**
  - Foot-mounted or flange-mounted design
  - B5 or B14 flange-mounted design
  - Solid or hollow shaft
  - Hollow shaft with keyed connection, shrink disk, splining or TorqLOC®

APPLICATION

- → Stage drives
- → Adjustment drives
- → Presses
- → Rotary tables
- → Corner transfer units

TECHNICAL DATA

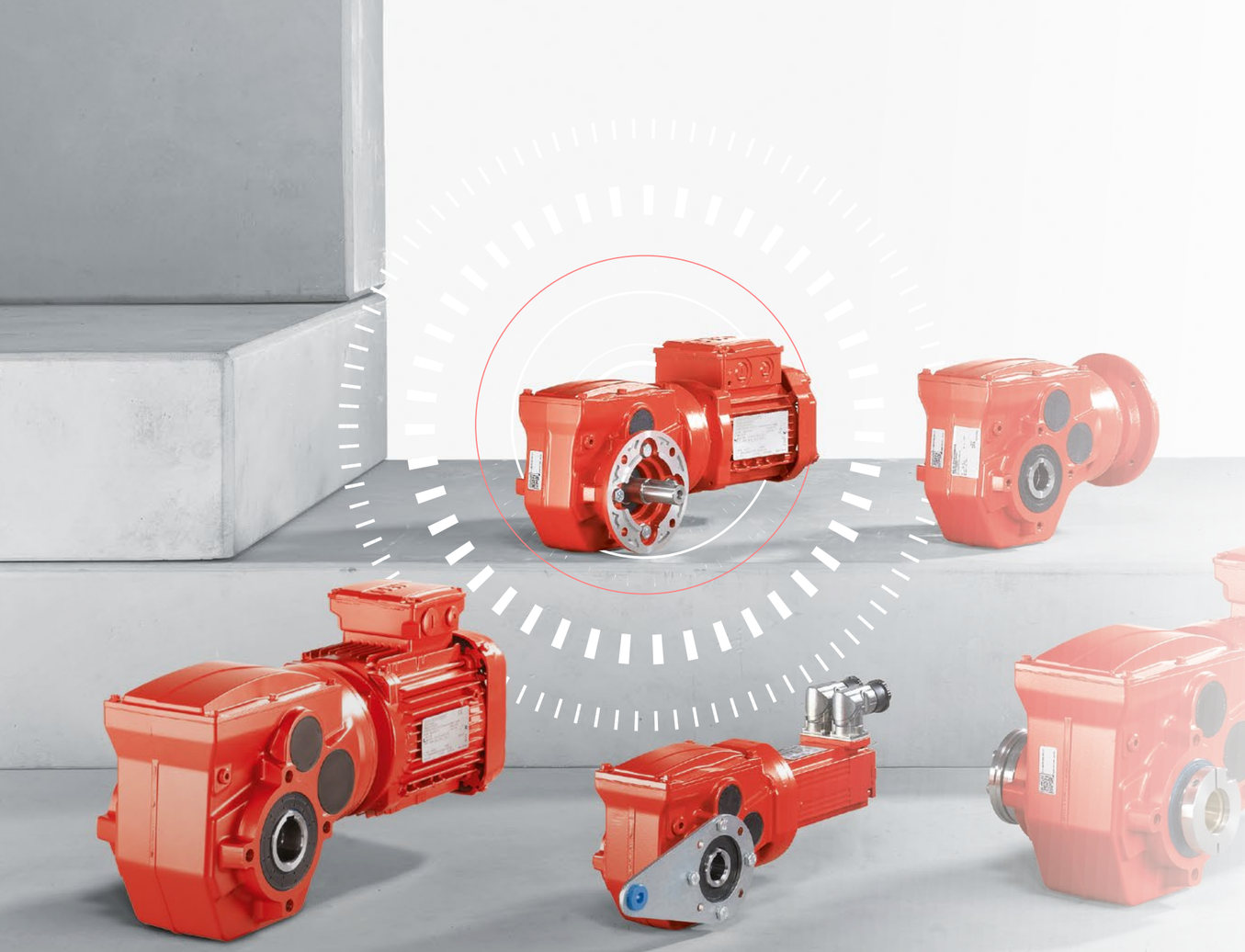
S SERIES/S..7P SERIES / SIZES 37 / 47 / 57 / 67 / 77 / 87 / 97

Gear unit ratio	i	3.97 – 288.00
Gear unit ratio – compound gear units	i	110 – 33 818
Max. output torque*	Nm	92 – 4 300
Motor power range (Mounting via AM motor adapter)	kW	0.12 – 30

*Smaller values possible, depending on the ratio

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HIGH-SPEED

LIGHT AND COMPACT

MINIMUM FRICTION LOSS

WEAR-FREE GEAR COMPONENTS

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PRODUCT DESCRIPTION

Does your materials handling application require top speed from your drive, but also need a compact and light configuration? Then we recommend W series right-angle gear units – our lightweight solutions.

The stand-out feature of SPIROPLAN® right-angle gear units is their wear-free gearing. It ensures reliable power transmission and speed adjustment for your materials handling system. Thanks to this gearing, our smallest right-angle gear units deliver permitted output torques up to 600 Nm in a power range from 0.09 kW to 4 kW. The steel-steel material combination and the special tooth meshing ratio enable a short gear unit design, resulting in space-saving drive installation.

BENEFITS

Cost-effective operation
thanks to wear-free SPIROPLAN® gearing and minimized friction losses.

Lightweight and compact
thanks to the aluminum housing and the specially designed gearing.

FEATURES

- **Robust right-angle gear units:**
  - Wear-free SPIROPLAN ® gearing (steel-steel material combination) and a special tooth meshing ratio
  - Minimized friction losses, optimized mechanical efficiency, reduced energy consumption
  - Vibration-free running/operation
- Small gear ratios enable combinations with high motor power and high speeds
- Lightweight aluminum housing
- **Mounting:**
  - Identical hole spacings and shaft heights on the foot and end face support a wide range of mounting options.
- **Mounting for gear unit sizes W..10, W..20, W..30:**
  - In these sizes, all mounting positions are possible, without changing the oil quantity, as the oil fill quantity is independent of the mounting position
- **Available designs:**
  - Foot-mounted or B5 flange-mounted design
  - Solid or hollow shaft with key or shrink disk
  - Mounting of motor adapters or free input shaft (W..9)
- **Asynchronous motor mounting:**
  - For gear unit sizes W..10, W..20, W..30: Direct motor mounting
  - For gear unit sizes W..9: Motor flange mounting
- **Optionally available as:**
  - MOVIMOT® design In other words, as a right-angle gear unit with integrated frequency inverter
  - MOVI-SWITCH® design In other words, as a right-angle gear unit with integrated switching and protection function

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APPLICATION

- → Small and fast-running conveyor belts in intralogistics
- → Roller conveyors
- → Belt conveyors
- → Chip conveyors
- → Sizes W10, W20, W30:
  - Especially suitable for noise-sensitive work environments
- → Sizes W..9:
  - In shaft-mounted design especially suitable for hygienic applications in the food and beverage industry

TECHNICAL DATA

W SERIES / SIZES 10, 20, 30, 19, 29, 39, 49, 59

	Sizes	W..10	W..20	W..30	W..19	W..29	W..39	W..49	W..59
Gear unit ratio	i	6.75 – 75.00	6.75 – 75.00	6.75 – 75.00	5.90 – 167.59	4.68 – 188.47	4.72 – 210.49	7.22 – 200.76	6.76 – 213.21
Max. output torque*	Nm	30	45	69	80	130	200	400	600
Motor power range (Mounting via AM motor adapter)	kW	0.09 – 0.12	0.12 – 0.37	0.12 – 0.75	0.09 – 0.75	0.12 – 1.1	0.12 – 1.5	0.12 – 3-0	0.12 – 4.0

OVERVIEW OF INCREASES IN TORQUE FOR W..10

Gear ratio i	M amax NEW Nm	Increase %
6.57	19	+58
8.20	23	+92
10.25	28	+115
14.33	24	+9
16.50	27	+35
19.50	30	+20
27.50	27	+13
35.50	28	+12
39.00	26	+4

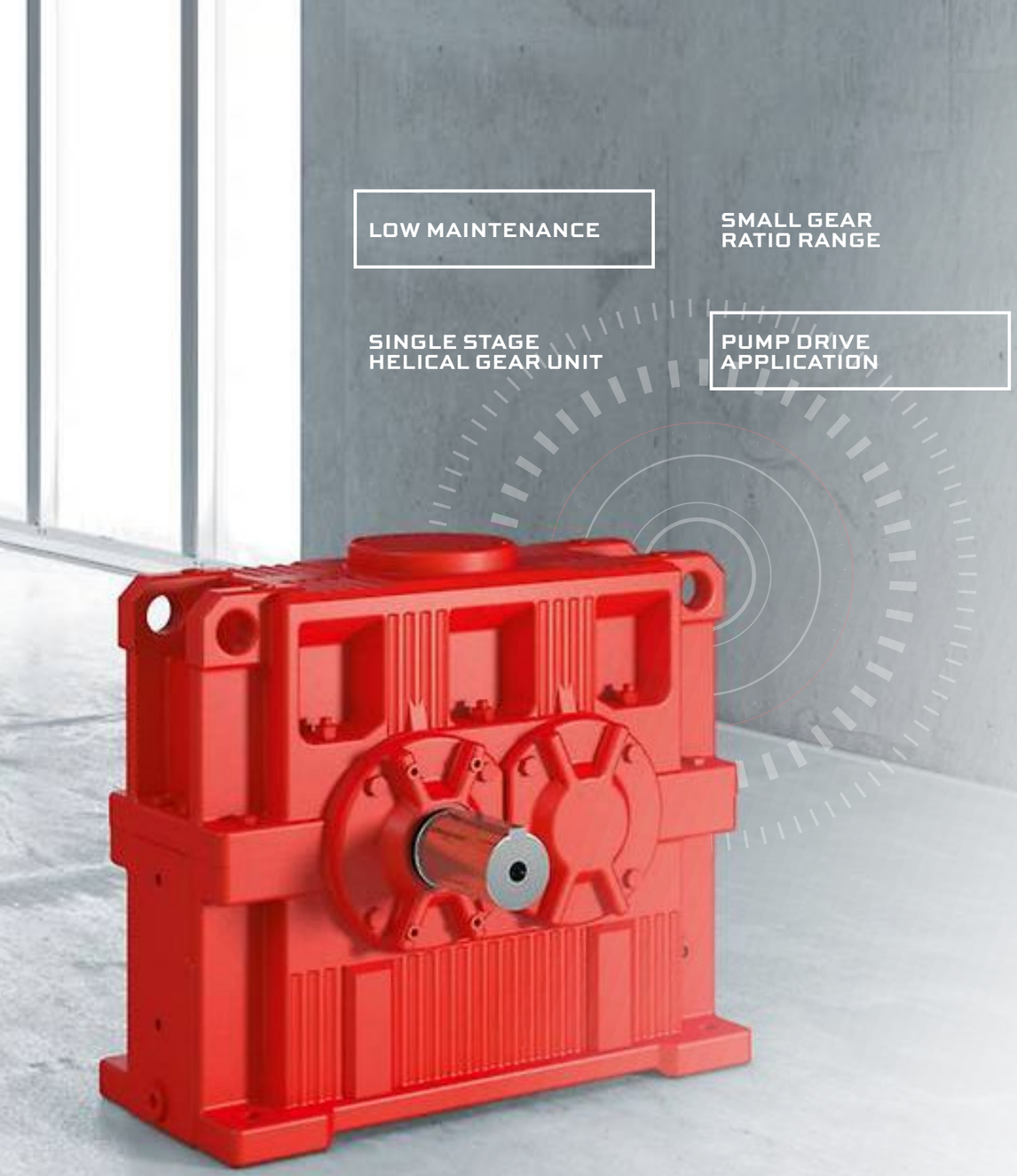
OVERVIEW OF INCREASES IN TORQUE FOR W..20

Gear ratio i	M amax NEW Nm	Increase %
6.57	24	+20
8.20	29	+45
10.25	36	+44
14.33	45	+50
16.50	38	+27
19.50	42	+20

OVERVIEW OF INCREASES IN TORQUE FOR W..30

Gear ratio i	M amax NEW Nm	Increase %
6.57	62	+55
8.20	65	+63
10.25	63	+26
14.33	69	+15
16.33	68	+13

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M1

PRODUCT DESCRIPTION

The M1..N series industrial gear units were developed especially for applications that require a small gear ratio range. This ensures that you are using the perfect helical gear unit for your application. This areas of application typical for this series are drive solutions that require foot-mounted helical gear units. You can use this gear unit for pump applications or rollers and refiners in the paper industry in particular.

As a leading industrial gear unit manufacturer, one of our main focal areas is engineering low-maintenance gear units for you. The M1..N series single-stage helical gear units are easy to remove because the steel housing is split horizontally. This means major savings on time and money in case you require service. We will also finish all of our gear units with special surface and corrosion protection as required. This allows you to use your gear units in extremely moist and/or chemically aggressive environments.

BENEFITS

Individual adaptability by mounting additional options and accessories to the gear unit

Optimized mounting dimensions because the gear unit housing is highest at the center

Simple maintenance due to a parting line that makes the housing easy to remove for servicing

FEATURES

- → **12** sizes
- → **Foot-mounted** helical gear units
- → **Oil heater** available
- → **Sealing system** for harsh conditions
- → **Cooling** with fan or cooling coil optional
- → **Rigid housing design** for thermal efficiency and stability
- → **Optional** accessories available

APPLICATION

The low-maintenance M1 series helical gear units provide the optimum basis for many of our customized application solutions with small gear ratios. In the paper industry, helical gear units are used for:

- → Pump drives
- → Refiners
- → Hydroelectric power plants

TECHNICAL DATA

Gear unit type	Stages	Gear ratio	Nominal torque MN2 kNm
Helical gear unit M1..N	1-stage	1 – 7.1	0.5 – 248



APPLICATIONS

ROTARY KILN

BALL MILL

SEGMENTED GIRTH GEAR

PRODUCT DESCRIPTION

Traditional girth gears generally consist of two to four segments and are assembled together for processing. This requires extremely large and expensive machines for production, handling and heat treatment. Besides this, the size of component parts creates disadvantages with regard to casting quality and heat treatment.

The innovative girth gears from SEW-EURODRIVE are always divided into several identical segments. This means the component parts are short and easy to handle. By combining the latest materials engineering and state-of-the-art manufacturing methods, the SEW-EURODRIVE girth gears avoid the disadvantages of the traditional manufacturing process and create new benefits.

SEW-EURODRIVE only uses austempered ductile iron (ADI) for the production of the girth gears. The classical materials cannot match its tensile strength.

BENEFITS

Minimal vibration
due to the precise pitch accuracy of the segmented girth gears according to ISO 8 (AGMA 8)

Simple exchange
because the division into segments means the entire ring does not need to be disassembled.

Longer service life
because due to proper dimensioning and lubrication, ADI girth gears are practically wear-free

FEATURES

- Practical handling of **individual segments**
- **Optimized quality assurance** due to minimal size
- **Precise pitch accuracy** according to ISO 8 (AGMA 8)
- **Simple** exchange
- **Low** weight
- **Longer service life** with ADI
- **Short** delivery time

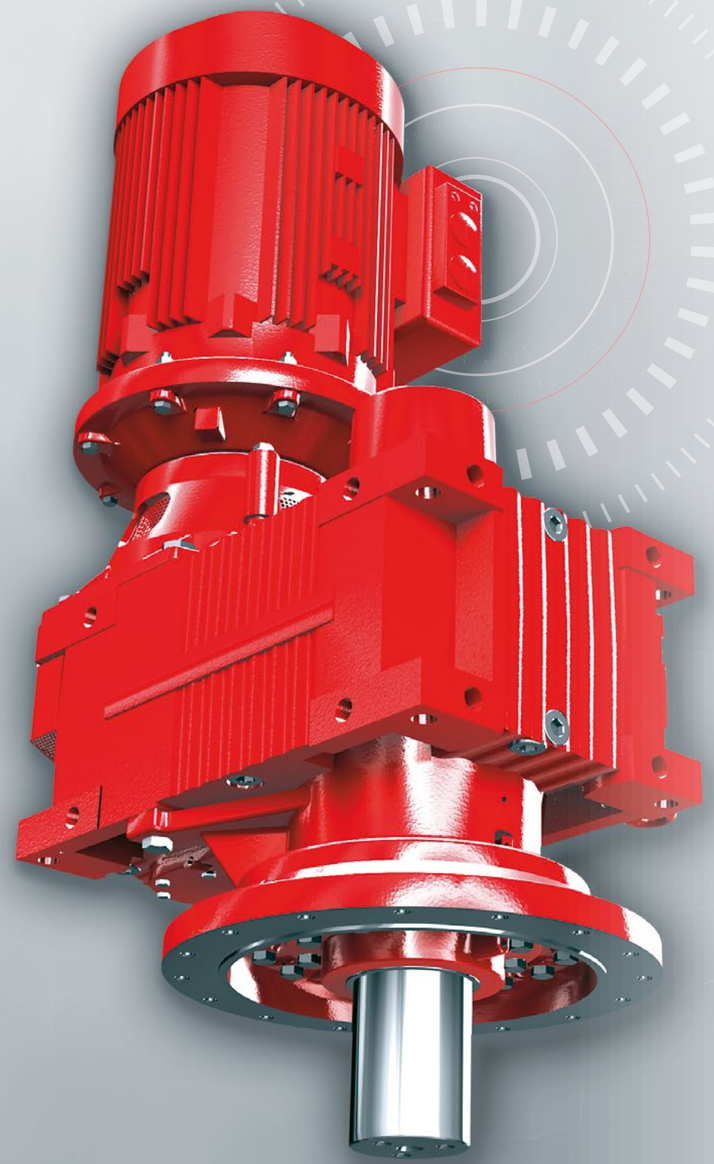
APPLICATION

Large, rotating systems such as Dryer, Rotary kilns or Horizontal mills in the:

- Chemical industry
- Environmental industry
- Timber industry
- Paper industry
- Steel industry
- Mining industry
- Raw materials industry

TECHNICAL DATA

Girth gear pitch diamete	Maximum width	Maximum power	Maximum pitch line velocity	Girth gear module	Calculated
Up to 16 m (larger diameters are available after further discussion)	600 mm	4000 kW per pinion	6 m/s	20, 25, 30, and 40 mm	according to ISO standard 6336 (AGMA on request)



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MC/ML MIXERS

PRODUCT DESCRIPTION

In process engineering plants, large axial and radial forces occur at the agitator shaft during agitating processes. Traditional designs solve this problem with seperate, external bearings that take on the function of the agitator shaft bearings. However, in many cases this solution has proved very cost-intensive.

SEW-EURODRIVE's new "EBD" (Extended Bearing Distance) concept offers stronger bearings within the gear unit itself, which means that in many cases seperate bearings are no longer required in the agitator or an oversizing of the gear unit can be avoided.

The high-torque industrial gear units of the MC series can be used for the reliable operation of mixers, agitators and surface aerators. Likewise, the powerful and stiff bearings are suitable for absorbing forces that occur in drives for wet, dry and hybrid cooling towers. the concept is supplemented by an optional drywell seal, which reliably prevents oil leakage at the output shaft and standardized mounting flanges.

BENEFITS

Powerful
Output bearings with high oad-bearing capacity and reinforced output shaft

Available
Short delivery times due to stocked components and the unique, international assembly network of SEW-EURODRIVE

Flexible
Different output flange dimensions can be adapted to the gear unit using clear interfaces

FEATURES

- → **Efficient** helical and bevel-helical gearing
- → **Hollow or solid** output shaft
- → **Spherical bearing** with paired taper roller bearings
- → **Radial labyrinth** sealing system
- → Case hardened, **helical steel gears** finished to AGMA 12 (ISO 6, DIN6)
- → **Gray cast** iron housing
- → **Splash and pressure** lubricated
- → **Modular construction** – fast delivery and global availability

APPLICATION

Mixing and aerating applications

- → Wastewater treatment

TECHNICAL DATA

Output torque capacity	Input HP capacity	Ratios	Reductions
570,000 lb-in	1400 HP	from 7:1 to 112:1 with single unit > 112:1 with compound units	Double and triple reductions within single unit

HIGH TORQUE RANGE

POWERFUL AND SPACE-SAVING INDUSTRIAL PLANETARY GEAR UNIT

COMBINE FLEXIBILITY

NOMINAL TORQUE RATING TO 5200KNM



LARGE XP

PRODUCT DESCRIPTION

The industrial gear units XP series are extremely space-saving planetary gear units for very high torque ratings up to 5 200 kNm. They enable specific drive solutions for applications in the high-performance area. An additional advantage: They are able to very flexibly customize the amount of stages and the individual gear ratios to your application. Depending on the application, it is important for users and outfitters of systems to position gear units and motors separately from each other. We have designed our XP series as a stand-alone gear unit with a free input shaft for such purposes.

Do you need a primary gear unit? No problem. Select a gearmotor from our comprehensive modular concept. We will attach it directly to the planetary gear unit for you. Or you can combine the XP gear unit with an industrial gear unit from the X series. You need even more power? No problem. We offer you project-specific industrial gear units from the XP series whose performance surpasses the stated torque range of 5 200 kNm.

BENEFITS

Combine flexibly
with the adapter mounting for electric motors, hydraulic motors, gearmotors and industrial gear units

Save on installation space
thanks to the compact construction and the high performance

Increase performance
thanks to the robust technology and the variable cooling system

FEATURES

- → **Stand-alone** industrial gear unit platform with 13 sizes
- → Suitable for **highest torques**
- → **Very compact** design
- → **High** torsional stiffness
- → **Free input shaft or direct mounting** of motors and primary gear units
- → Various **output shaft variants**
- → Various **predefined options** and additional designs
- → **Customer-specific** adaptations possible

APPLICATION

The powerful and space-saving industrial planetary gear units of the XP series can be applied wherever maximum torque ratings are required for the movement of very large quantities.

- → Materials handling technology
- → Raw materials processing
- → Timber industry
- → Paper industry
- → Food industry
- → Mixers and agitators

TECHNICAL DATA

Gear unit type	Stages	Gear ratio i	Nominal torque MN2 kNm
Planetary gear units XP..:	2-, 3- and 4-stage	22 – 3 600*	600 – 5 200

*In combination with primary gear units from our SEW-EURODRIVE modular concept for standard gear units. We can offer you customized product solutions on request.

P2.e SERIES

PRODUCT DESCRIPTION

The P2.e series is available for the torque range 24.8 kNm to 124 kNm. These two- or three-stage planetary gear units cover gear ratios of 15.2 to 332. With its compact design, flexibility, and high thermal limit rating, this gear unit is the ideal solution for continuous heavy-duty applications where space is tight.

The combination of the high torque density and compact design means the gear unit can be used in applications where space is tight. To also achieve a high thermal limit rating, there is the option of an integrated fan in the motor interface. The fan aspirates air radially, accelerates it, and generates a cooling stream of air with a high flow rate. Besides its high power density, the P2.e series therefore also has a "best-in-class" thermal limit rating.

BENEFITS

Maximum efficiency
because the P2.e series of planetary gear units has a very high thermal limit rating and therefore requires no additional external cooling

Compact design
that ensures P2.e planetary gear units can make the most of tight installation spaces for machinery and systems

High degree of flexibility
thanks to the potential for combination with our modular system of motors and diverse range of options for input and output sides, opening up a great degree of freedom in machine design

Simple machine connection
thanks to a range of different mounting types and output shafts

FEATURES

- High torque density for tight spaces
- Lightweight construction
- High thermal limit rating
- Coaxial design
- High variance at input
- High torsional rigidity
- Diverse optional equipment & options

APPLICATION

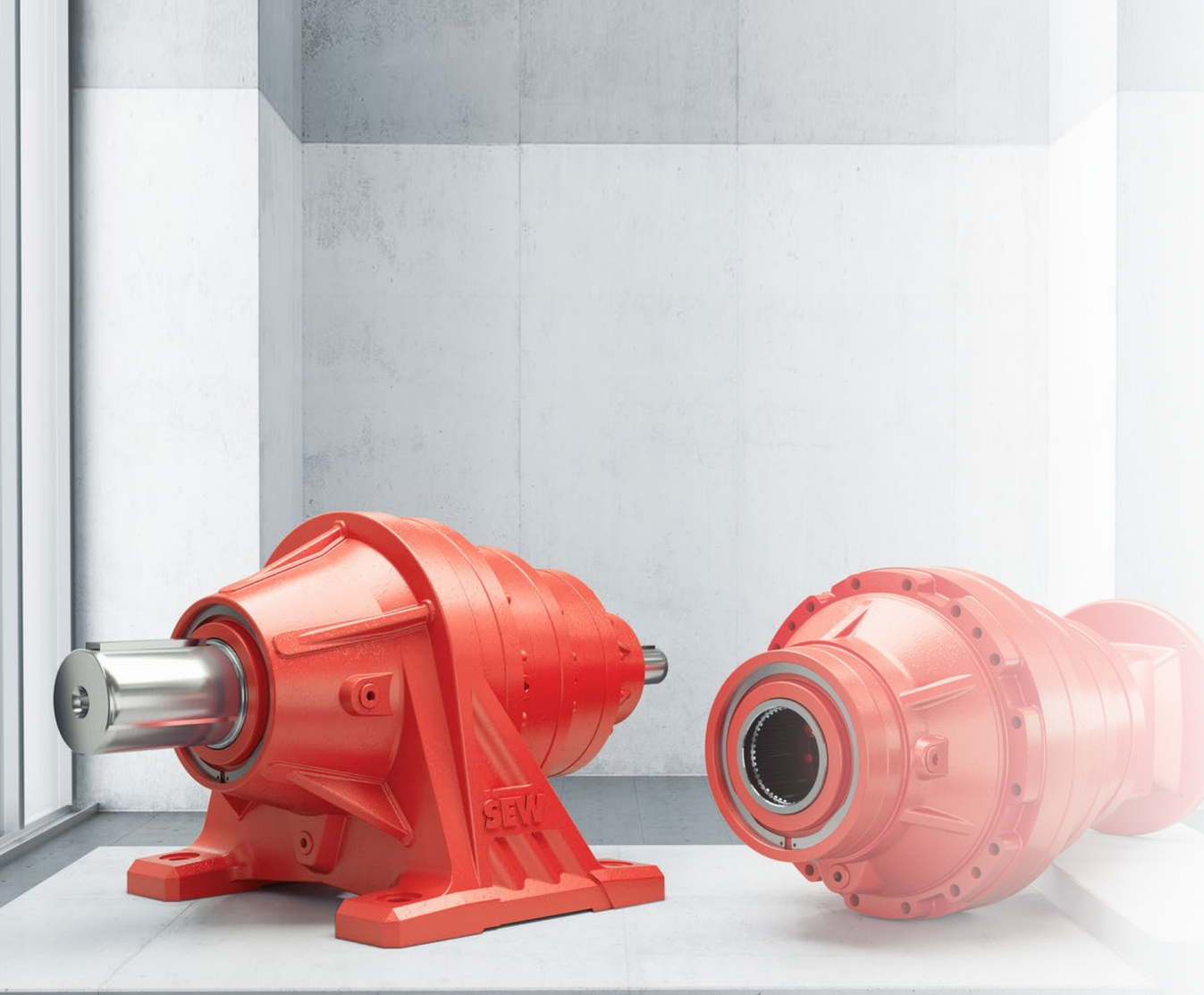
The unique benefits and specific features of the new generation P2.e make it possible to use these planetary gear units and gearmotors in applications in a variety of industries:

- Crushers
- Shredders
- Screw presses
- Ring pan mixers
- Batch mixers
- Slewing gears

TECHNICAL DATA

Planetary gear unit type	Stages	Gear ratio i	Nominal torque M_{N2}
P2P.002e - 052e	2	15.2 - 39.2	24.8 - 124 kNm
P3P.002e - 052e	3	51.7 - 332	24.8 - 124 kNm

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PPK SERIES

PRODUCT DESCRIPTION

Compact – reliable – flexible: The PPK planetary gear units complement our industrial gear units product line in the torque load range under the proven P series. In the sizes 010 and 017 the gear unit is available for the torque range 10 700 Nm to 17 650 Nm. As a three-stage design or with primary gear motor, it covers a gear ratio range from 65 to 10 650. The load is distributed across multiple planet gears, resulting in a significantly higher power density and thus enabling smaller dimensions compared to other gear unit types. The PKK series planetary gear units are therefore perfect for all heavy-duty applications that require a robust, compact design and high gear ratios.

In addition to gear unit design such as flange and foot mounting, the variance at the input and output offers great flexibility for the user. On the output end, a solid shaft with key and a splined solid shaft are available. As a hollow shaft gear unit, you can choose between a splined hollow shaft and a hollow shaft with shrink disk. On the input gear end, the motor connection is made either via an exposed shaft-end or a motor adapter. Access to the complete modular motor system from SEW-EURODRIVE with extensive options such as brakes and encoders also offer further degrees of freedom.

BENEFITS

Speed
with short delivery times thanks to local assembly and optimized processes

Space spaving
thanks to a more compact design than that of other gear unit types with the same power rating

Reliability
thanks to gearing with infinite fatigue strength based on DIN 3990 (a design with finite fatigue strength is also possible).

Flexibility
thanks to the ability to freely combine the gear units with the DR.. modular motor system from SEW-EURODRIVE and the corresponding frequency inverters

APPLICATION AREAS

Applications in practice: the specific benefits of the PPK series make it possible to use this planetary gear unit in a wide variety of industries and applications.

- → Recycling industry
- → Water/wastewater industry
- → Mining and cement industry
- → Food industry
- → Chemical industry
- → Rubber and plastic industry



PPK SERIES

PPK.010 SELECTION TABLE

The following table lists the nominal torque rated for endurance strength and the nominal torques taking into account the service life factor for the individual gear ratios.

fLC = (Lh x n2) / 1000

→ fLC = Service life factor
→ Lh = Required service life (h)
→ n2 = Speed at output shaft (min-1)

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.010	**65.67**	13 627	12 645	12 469							**11 100**	22 200
	71.37	13 627	12 645	12 469							**11 100**	22 200
	77.56	13 627	12 645	12 469							**11 100**	22 200
	78.55	13 627	12 645	12 469							**11 100**	22 200
	84.29	13 112	12 124	11 904							**10 980**	21 960
	85.37	13 627	12 645	12 469							**11 100**	22 200
	92.78	13 112	12 124	11 904							**10 980**	21 960
	93.97	13 627	12 645	12 469							**11 100**	22 200
	100.5	13 627	12 645	12 469							**11 100**	22 200
	102.1	13 112	12 124	11 904							**10 980**	21 960
	109.3	13 627	12 645	12 469							**11 100**	22 200
	112.4	12 658	11766	11 492							**10 600**	21 200
	118.7	13 112	12 124	11 904							**10 980**	21 960
	120.3	13 627	12 645	12 469							**11 100**	22 200
	130.7	13 112	12 124	11 904							**10 980**	21 960

1) Gearing with infinite fatigue strength (based on DIN 3990)

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PPK SERIES

PPK.010 SELECTION TABLE

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fLC = (Lh x n2) / 1000

→ fLC = Service life factor
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→ n2 = Speed at output shaft (min-1)

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.010	**146.5**	13 627	12 645	12 469							**11 100**	22 200
	153.9	13 627	12 645	12 469							**11 100**	22 200
	159.2	13 627	12 645	12 469							**11 100**	22 200
	167.3	13 112	12 124	11 904							**10 980**	21 960
	173.0	13 112	12 124	11 904							**10 980**	21 960
	175.2	13 627	12 645	12 469							**11 100**	22 200
	184.1	12 658	11 766	11 492							**10 600**	21 200
	190.4	13 112	12 124	11 904							**10 980**	21 960
	209.6	12 658	11 766	11 492							**10 600**	21 200
	224.3	13 627	12 645	12 469							**11 100**	22 200
	243.7	13 112	12 124	11 904							**10 980**	21 960
	268.3	12 658	11 766	11 492							**10 600**	21 200
	326.8	13 627	12 645	12 469							**11 100**	22 200
	355.2	13 112	12 124	11 904							**10 980**	21 960
	390.9	12 658	11 766	11 492							**10 600**	21 200

1) Gearing with infinite fatigue strength (based on DIN 3990)

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PPK SERIES

PPK.017 SELECTION TABLE

The extended gear ratio range with primary gear unit (motor) is shown below:

→ Bevel-helical gear unit–planetary gear unit (motor) PPK..KAF i = 685 – 10 700
→ Helical gear unit–planetary gear unit (motor) PPK..RF i = 625 – 10 700

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.017	**65.67**	22 107	20 520	20 242							**18 500**	37 000
	71.37	22 107	20 520	20 242							**18 500**	37 000
	77.56	22 107	20 520	20 242							**18 500**	37 000
	78.55	22 107	20 520	20 242							**18 500**	37 000
	84.29	21 495	19 875	19 515							**18 000**	36 000
	85.37	22 107	20 520	20 242							**18 500**	37 000
	92.78	21 495	19 875	19 515							**18 000**	36 000
	93.97	22 107	20 520	20 242							**18 500**	37 000
	100.5	22 107	20 520	20 242							**18 500**	37 000
	102.1	21 495	19 875	19 515							**18 000**	36 000
	109.3	22 107	20 520	20 242							**18 500**	37 000
	112.4	20 793	19 314	18 850							**17 400**	34 800
	118.7	21 495	19 875	19 515							**18 000**	36 000
	120.3	22 107	20 520	20 242							**18 500**	37 000
	130.7	21 495	19 875	19 515							**18 000**	36 000

1) Gearing with infinite fatigue strength (based on DIN 3990)

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PPK SERIES

PPK.017 SELECTION TABLE

The extended gear ratio range with primary gear unit (motor) is shown below:

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→ Helical gear unit–planetary gear unit (motor) PPK..RF i = 625 – 10 700

Size	i_{ex}	Service life factor f_{LC}										$M_{N2\ Lim}$ Nm
		≤ 7.5	≤ 15	≤ 25	≤ 30	≤ 35	≤ 45	≤ 52.5	≤ 70	≤ 95	≤ 107.5	≤ 107.5[1]
		M_{N2} Nm										
PPK.017	**146.5**	22 107	20 520	20 242							**18 500**	37 000
	153.9	22 107	20 520	20 242							**18 500**	37 000
	159.2	22 107	20 520	20 242							**18 500**	37 000
	167.3	21 495	19 875	19 515							**18 000**	36 000
	173.0	21 495	19 875	19 515							**18 000**	36 000
	175.2	22 107	20 520	20 242							**18 500**	37 000
	184.1	20 793	19 314	18 850							**17 400**	34 800
	190.4	21 495	19 875	19 515							**18 000**	36 000
	209.6	20 793	19 314	18 850							**17 400**	34 800
	224.3	22 107	20 520	20 242							**18 500**	37 000
	243.7	21 495	19 875	19 515							**18 000**	36 000
	268.3	20 793	19 314	18 850							**17 400**	34 800

The extended gear ratio range with primary gear unit (motor) is shown below:

→ Bevel-helical gear unit–planetary gear unit (motor) PPK..KAF: i = 675 – 10 700
→ Helical gear–planetary gear unit (motor) PPK..RF: i = 560 – 10 700

1) Gearing with infinite fatigue strength (based on DIN 3990)

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EC DRIVES

PRODUCT DESCRIPTION

Our ECDriveS® is a DC drive with 40 W continuous power and up to 100 W dynamic power that is optimized for the typical power ranges of roller conveyors used in light-duty materials handling technology. ECDriveS® units are remarkable for not only their ease of use—just connect them and you're done—but also their adaptability. They are extremely easy to integrate and start up, and once operational they exhibit excellent durability and long service lives.

The ECDriveS® drive system rounds out our broad product portfolio of standard gearmotors, motor starters and decentralized drives for intralogistics in the low power range.

BENEFITS

Save time
You can easily order the drive system, the driven roller and the gearmotor from just a single supplier: SEW-EURODRIVE

Implement positioning tasks easily
With the integrated encoder in ECDriveS®

Future-proof networking
With Ethernet

More than a market standard
ECDriveS® offers higher performance and overload capacity than comparable solutions

Your choice of control options
Centralized control via a PLC or decentralized, intelligent handling logic for zero pressure accumulation and much more

FEATURES

- Our ECDriveS® units are drives with 40 W continuous power and more than 250% overload capacity. They combine a sturdy planetary gear unit, which is supported on both ends, and an efficient permanent magnet motor (BLDC).
- The integrated encoder allows for precise speed control, and controlled brake ramps let you position the material precisely and independent of the load.
- A thermistor is implemented to protect the motor, meaning you always know the current motor temperature.
- An electronic nameplate allows you to set up the drives automatically. No other system is this simple and easy. The motor can be controlled via PROFINET IO, Ethernet IP, Modbus TCP, EtherCAT® or with binary control. I/O modules can be used to expand the drive system.

APPLICATION

- The units are suitable for all light-duty handling tasks with S1 operation and up to 40 W.

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EC DRIVES

TECHNICAL DATA

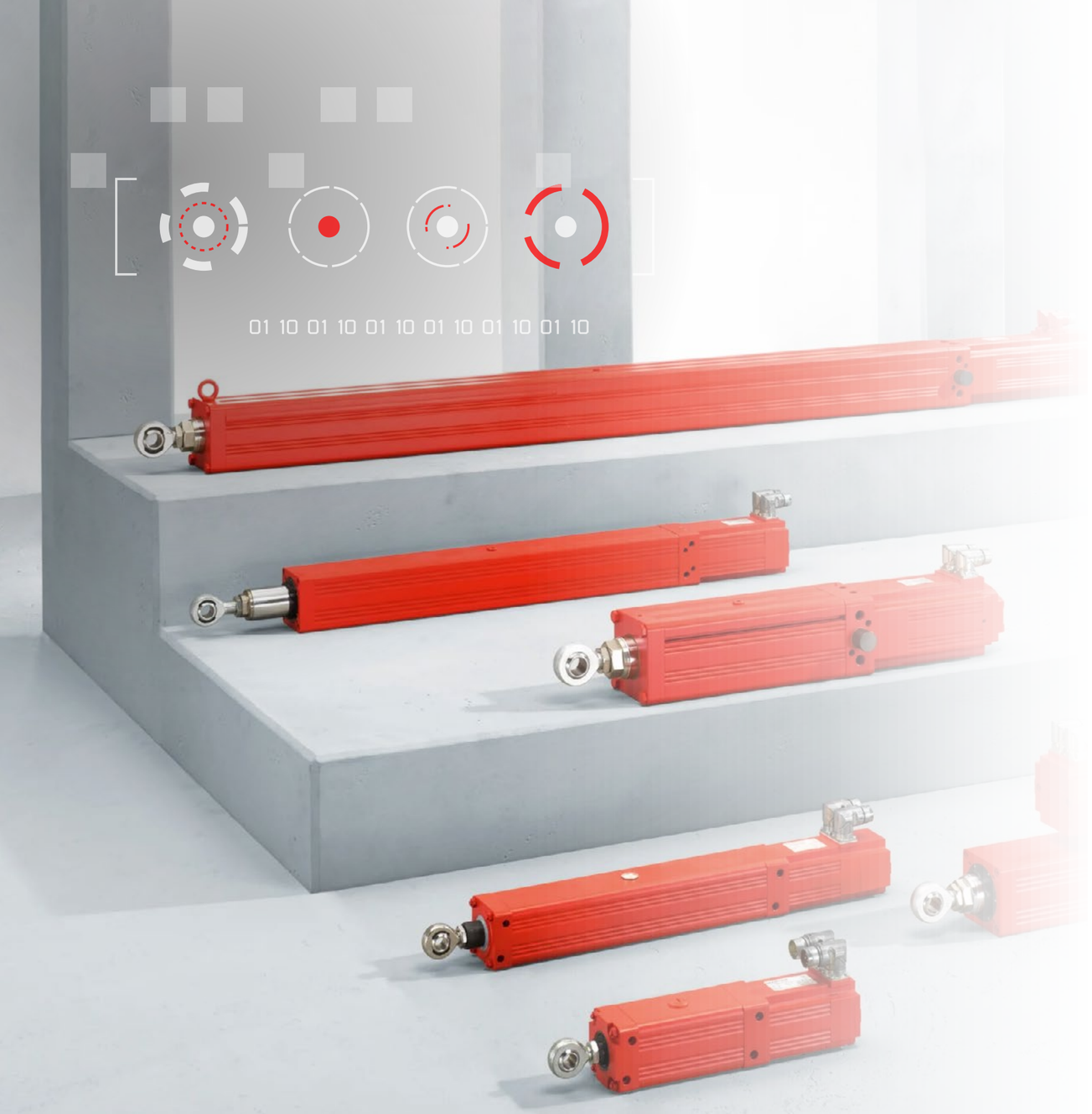
GEARMOTOR

	Driven roller, ECR-type ECDriveS®	Gearmotor, ECG-type ECDriveS®
Number of gear unit ratios i	11	9
Max. velocity	0.04 - 5 m/s	8.5 - 645 rpm
Max. accelertion torque Nm	9.6	14.3
Max. brakeaway torque Nm	21	32
Nominal current A	2.5	
Maximum current A	8	
Degree of protection	IP54 (IP66 optional)	
Temperature range	-10 - 40 °C (-30 °C optional)	

ELECTRONICS

	Direct fieldbus control, ECC-DFC-type ECDriveS®	Direct binary control, ECC-DBC-type ECDriveS®
Nominal voltage V	24	
Communication	Ethernet protocols: PROFINET, EtherNet/IP™, Modbus/TCP, EtherCAT®	3 DI + error output
Configuration	ECDriveS® PC-Tool ECShell	DIP switch 32 speeds / 16 ramps
Functions	Precise ramps ▪ Positioning ▪ Zero pressure accumulation ▪ (ZPA), FlexZone, merger, tracking Torque-on-demand ▪ Automation configuration ▪ Automatic sensor recognition ▪ Diagnostics	
Degree of protection	IP54	IP20

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ELECTRIC CYLINDER OF THE CMS.. SERIES

PRODUCT DESCRIPTION

The interesting alternative to pneumatic or hydraulic cylinders: electromechanical electric cylinders of the CMS.. series. With patented oil bath lubrication, they deliver precise and reliable linear movement with maximum dynamics. Whether via direct motor mounting or when mounted via an adapter.

DEPENDING ON REQUIREMENT: STANDARD OR MODULAR

Applications with linear movement often place high demands on the travel profile. This is why you should implement intelligent drive systems and combine our energy efficient electric cylinders with our intelligent inverters.

Your benefits: Drive systems that easily enable different travel profiles and offer a high level of positioning flexibility, new programming options, power control and a diagnostics function. For reliable implementation of your production processes.

Our CMS.. standard series enables quick and direct motor mounting. It is available in 3 motor sizes for axially serial applications. Equipped with patented oil bath lubrication which considerably enhances the service life of the CMSB.. generation electric cylinders.

The CMSM.. modular series is available in addition to the standard design. Also equipped with the patented oil bath lubrication, the linear unit can be simply attached to our CMP.. series synchronous servomotors using an adapter. The decisive advantage: Extremely compact drives with the full range of functions offered by the CMP.. modular motor system.

Regardless of whether you order the axially parallel or serial configuration of the modular CMSM.., we will supply the right adapter.

Only half the solution without an inverter? In that case, combine our electric cylinders with the right inverter technology.

BENEFITS

Long service life
The patented oil bath lubrication means that the linear unit is low maintenance and reduces wear to a minimum

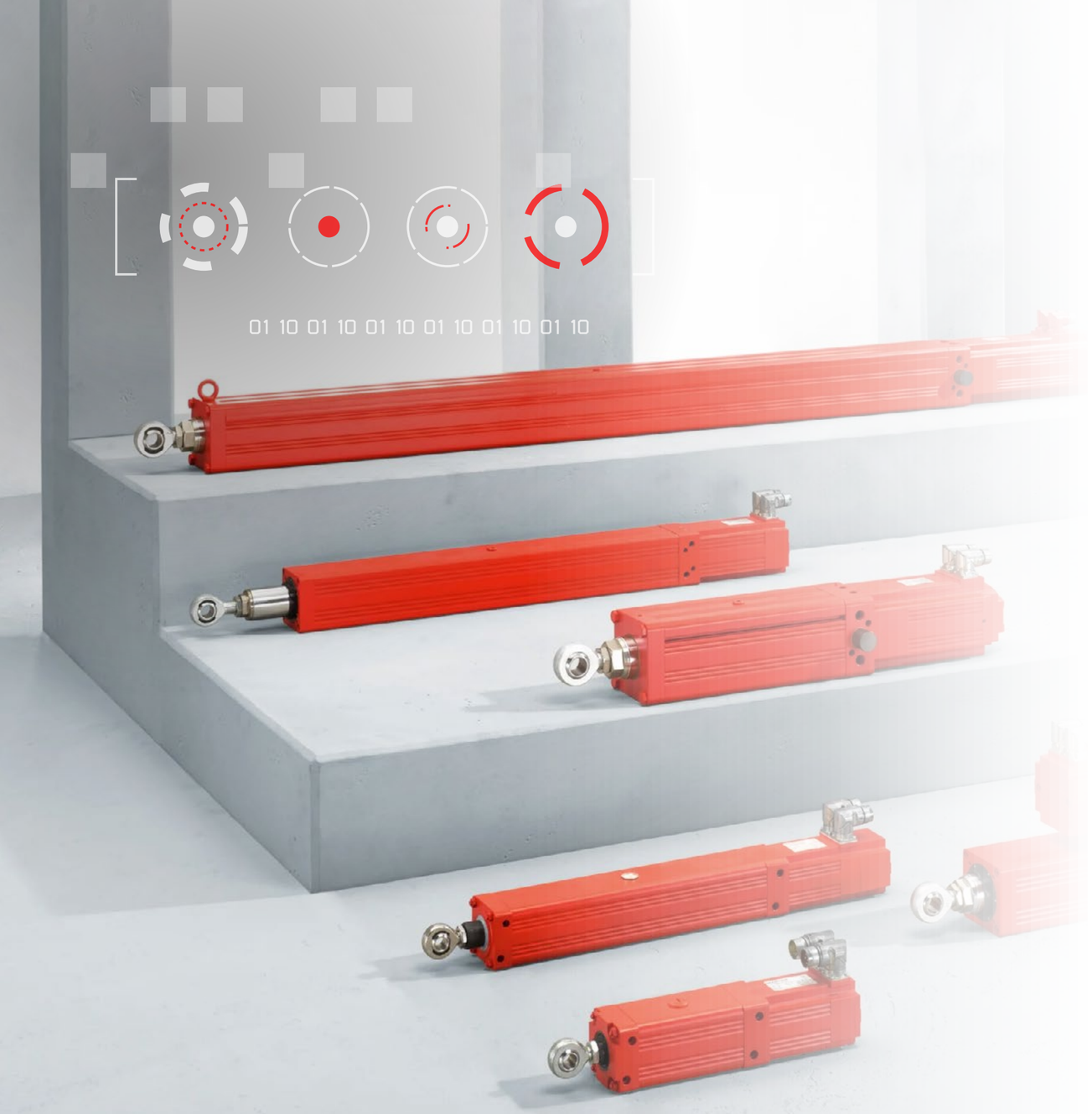
High power density
The thermally conductive oil bath enhances the temperature compensation between the heat source and the heat dissipating component parts

Fast acceleration
The permanent magnet rotors ensure a power increase that is five times faster than pneumatic cylinders

Reduced costs
Energy provision not necessary which thus saves energy costs. What's more, the compact design reduces the production area

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ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

PROPERTIES

CMSB50 – 71 SERIES WITH OIL BATH LUBRICATION

- → Patented maintenance-free oil bath lubrication (lubrication for life)
- → Very high thermal power density
- → Very low-noise operation
- → Very small working strokes possible (< 1 mm)
- → Integrated ball screw drive or planetary roller screw drive
- → Smooth, hard chrome-plated piston rod
  for special requirements at certain ambient conditions, such as in humid or dusty environments
- → Integrated locking device for lifting rod (torque arm)
- → Also available as brake servomotor with 24 V holding brake
- → Resolver feedback or with absolute encoder
- → Optional 24 V forced cooling fan
- → Food grade lubricant as an option
- → Integrated water cooling
- → Various installation options



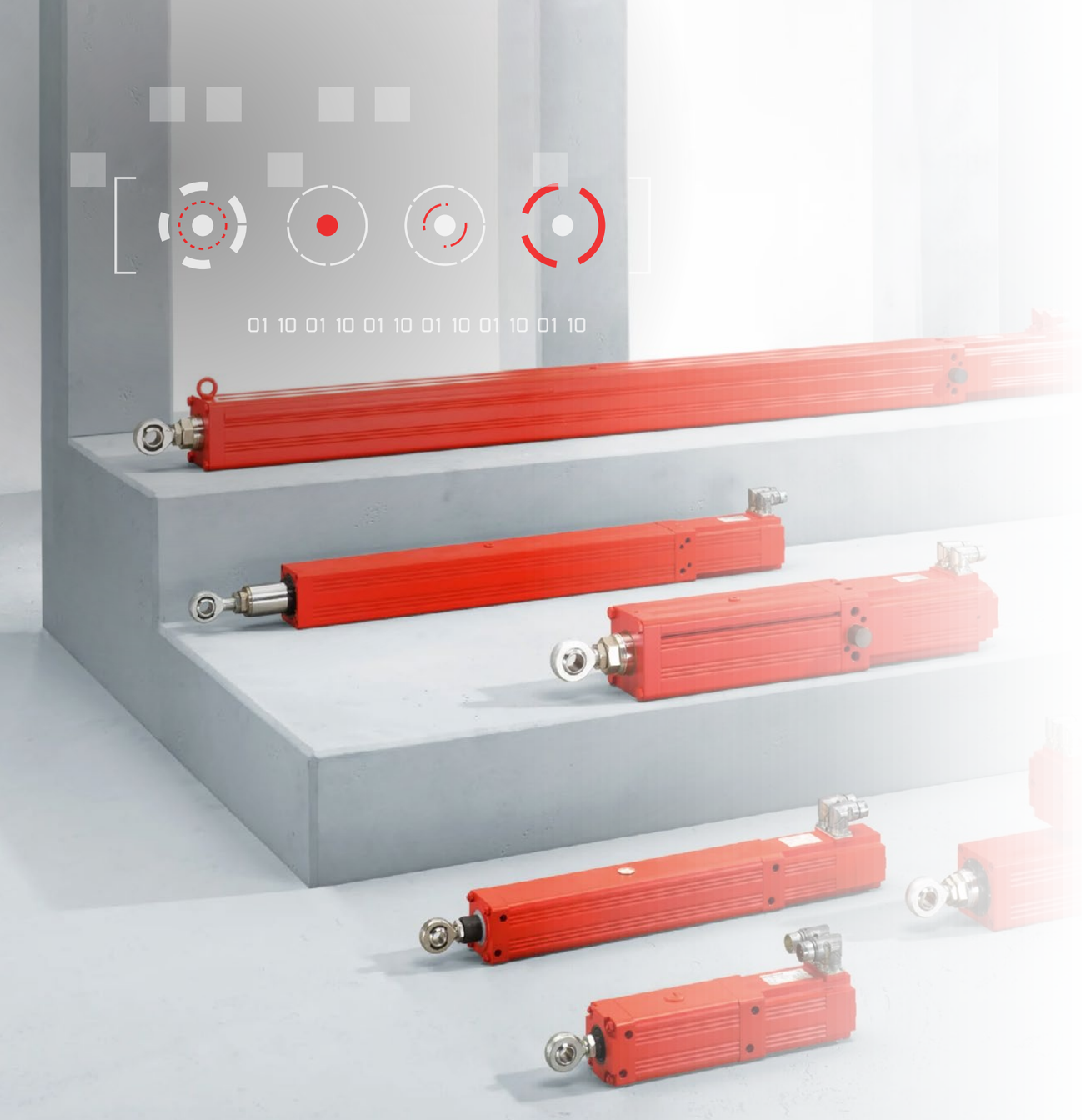
CMS71 SERIES WITH GREASE LUBRICATION



- → Equipped with permanent magnet rotors
- → Precise, powerful, and fast
- → Integrated ball screw drive or planetary roller screw drive
- → Also available as brake servomotor with 24 V holding brake
- → Resolver feedback or with absolute encoder
- → Food grade lubricant as an option

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ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSB50

ELECTRICAL DATA

Type	CMSB50S	CMSB50M	CMSB50L
Max. torque Nm	5.2	7 [1)]	7 [1)]
Standstill torque Nm	1.3	2.4	3.3

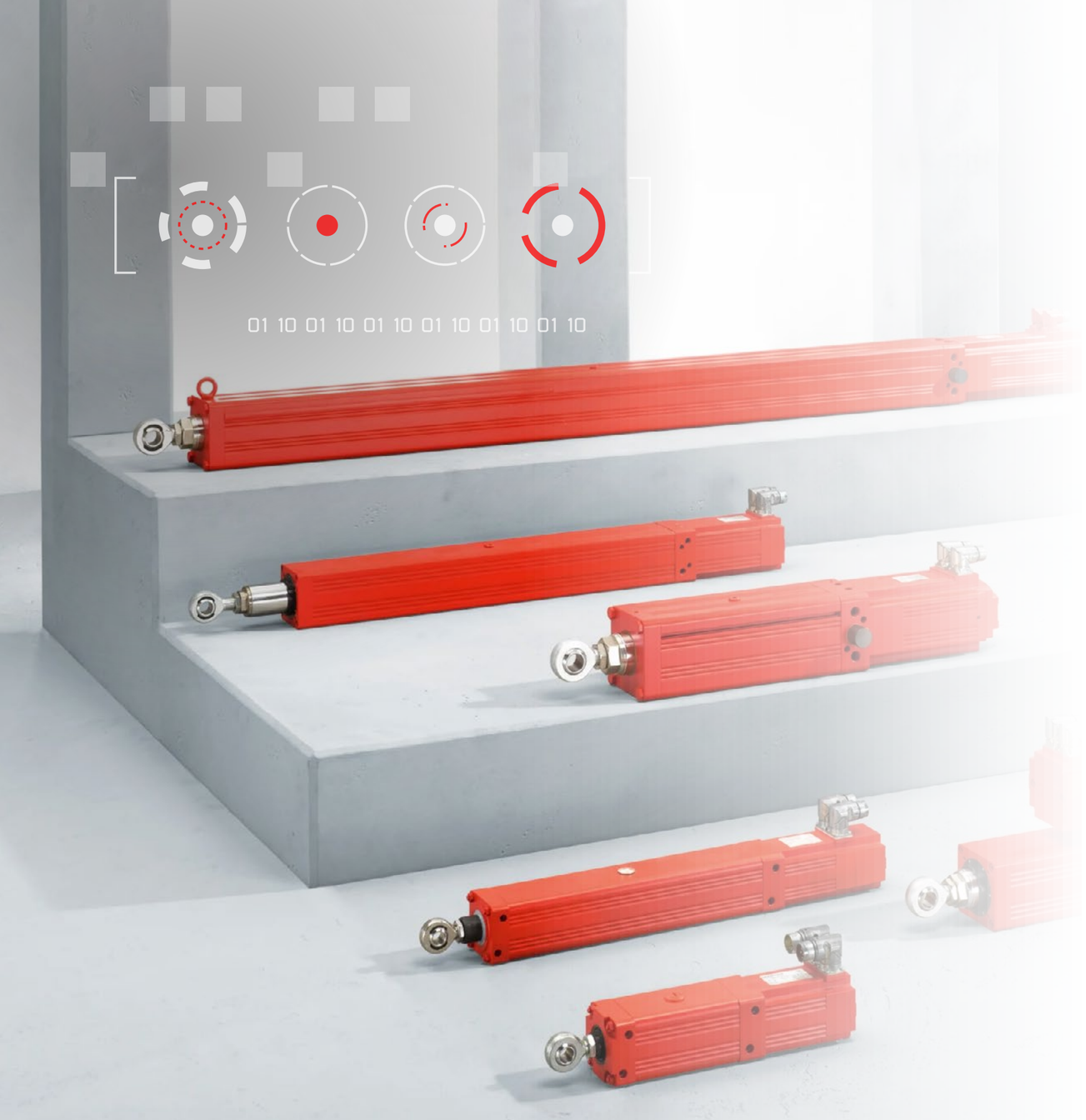
MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT 20x5	KGT 20x5	KGT 20x5
Max. continuous feed force N	1,200	2,200	2,200
Peak feed force N	5,300	8,000	8,000
Stroke lengths mm	70 / 100 / 150 / 200 / 300 / 400 /600		
Max. speed mm/s	375	375	375

1) Maximum permitted torque

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ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSB63

ELECTRICAL DATA

Type	CMSB63S	CMSB63M
Max. torque Nm	11.1	11.1 [1]
Standstill torque Nm	2.9	5.3

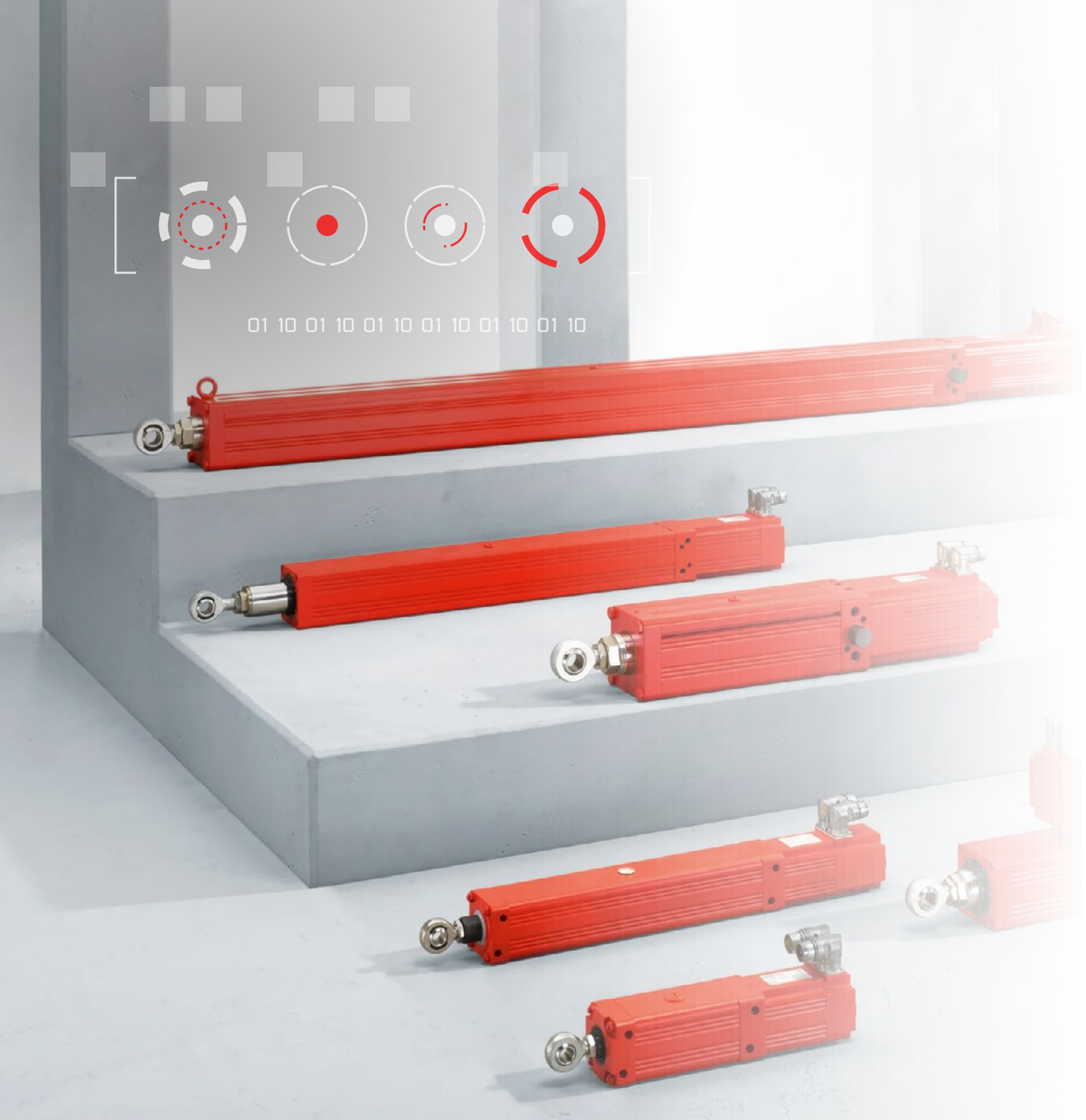
MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm	
Spindle type	KGT 25x6	KGT 25x6
Max. continuous feed force N	2,400	4,100
Peak feed force N	10,000	
Stroke lengths mm	60 / 100 / 160 / 180 / 200 / 400 / 600	
Max. velocity mm/s	450	

1) Maximum permitted torque

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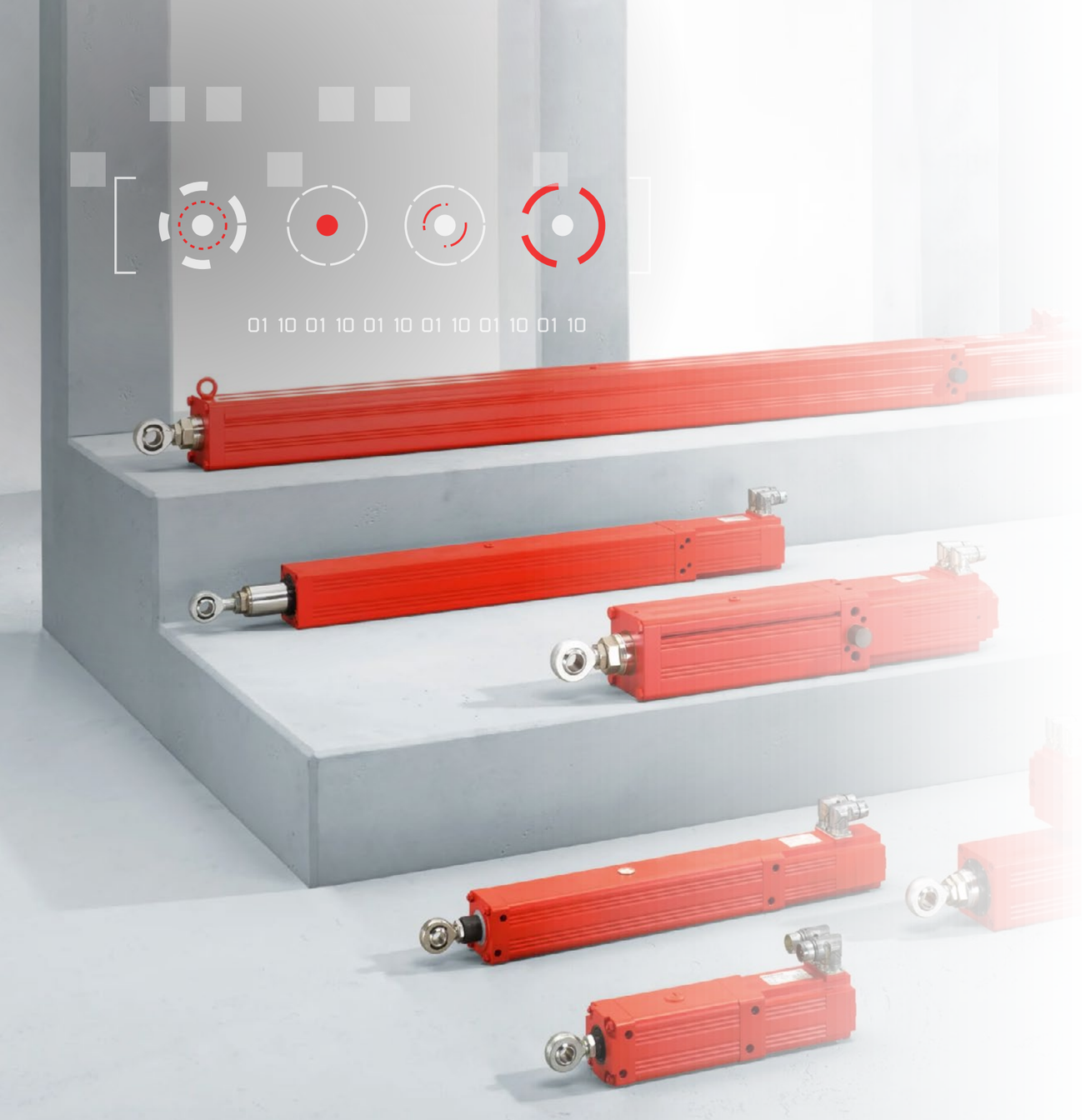
ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSB71

ELECTRICAL DATA			
Type	CMSB71S	CMSB71M	CMSB71L
Max. torque Nm	19.2	25	25
Standstill torque Nm	6.4	9.4	13.1
MECHANICAL DATA			
Rated speed n_N	2,000 rpm / 3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT 32x6	KGT 32x6	KGT 32x6
Max. continuous feed force N	5,000	7,500	10,000
Peak feed force N	18,000	24,000	24,000
Stroke lengths mm	100 / 160 / 200 / 400 / 600 / 800 / 1,000 / 1,200		
Max. velocity mm/s	450	450	450



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

ELECTRICAL DATA				
Type	CMS71L			
Max. torque Nm	31.4	22.1 [1]		24.4 [1]
Standstill torque Nm	9.5			
MECHANICAL DATA				
Rated speed n_N	2,000 rpm / 3,000 rpm / 4,500 rpm			
Spindle type	KGT 32x10	KGT 32x6		KGT 24x5
Max. continuous feed force N	3,600	6,700		7,200
Peak feed force N	17,000	20,000	15,000 20,000	20,000
Stroke lengths mm	200	200	350	200
Max. velocity mm/s	500	300	200	250

1) Maximum permitted torque

AREAS OF OPERATION

- → Process engineering or packaging technology
- → Handling
- → Printing and plastics industry
- → Wood processing

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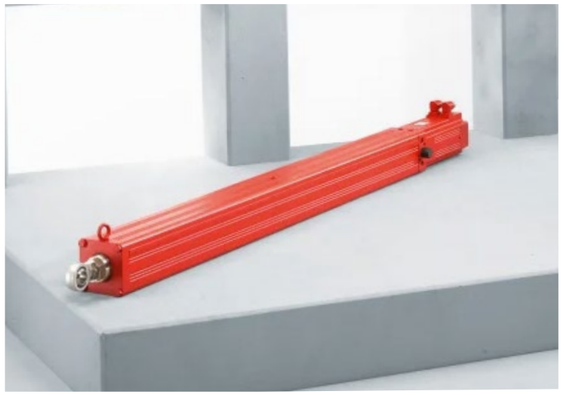
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ELECTRIC CYLINDER OF THE CMS.. SERIES

MODULAR ELECTRIC CYLINDER CMSM.. – AXIALLY SERIAL AND PARALLEL CONFIGURATION

PROPERTIES

CMSMB50 – 71 SERIES / ACH OR ACA (AXIALLY SERIAL)

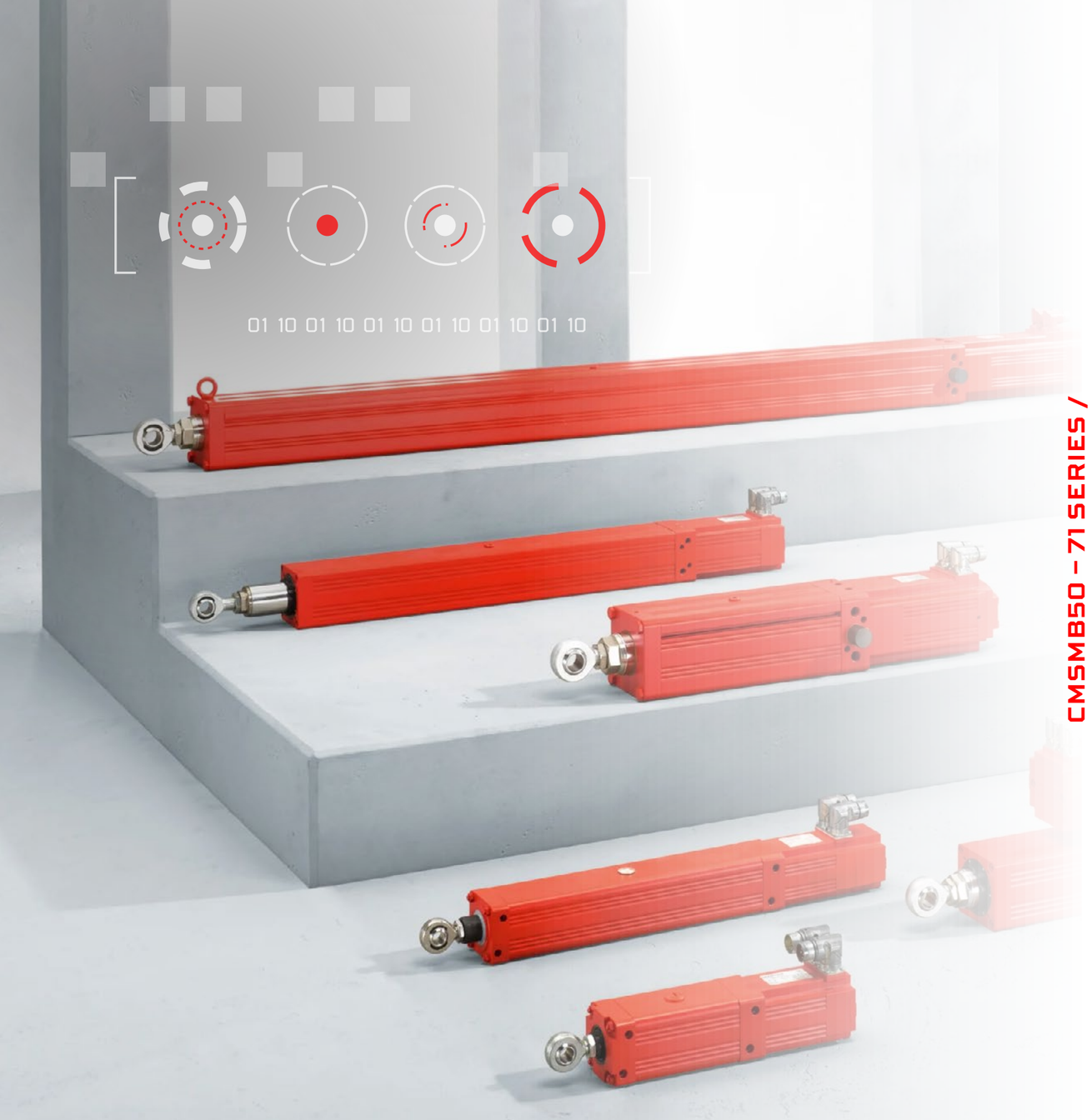


- → Can be combined with our standard servomotors (CMP50/63/71) using ACH/ACA adapters
- → Separately available modular unit (linear gear unit) with maintenance-free oil bath lubrication of the standard electric cylinder
  - Increased thermal utilization
  - Homogeneous heating
  - Maintenance-free thanks to lubrication for life

CMSMB50 – 71 SERIES / AP (AXIALLY PARALLEL)



- → Can be combined with our standard servomotors (CMP50/63/71) using AP adapter
  - Compact design
  - Patented maintenance-free oil bath lubrication (lubrication for life)
  - Very high thermal power density
  - Very low-noise operation
  - Optional water cooling



CMSMB50 – 71 SERIES / ACH OR ACA (AXIALLY SERIAL)

ELECTRIC CYLINDER OF THE CMS.. SERIES

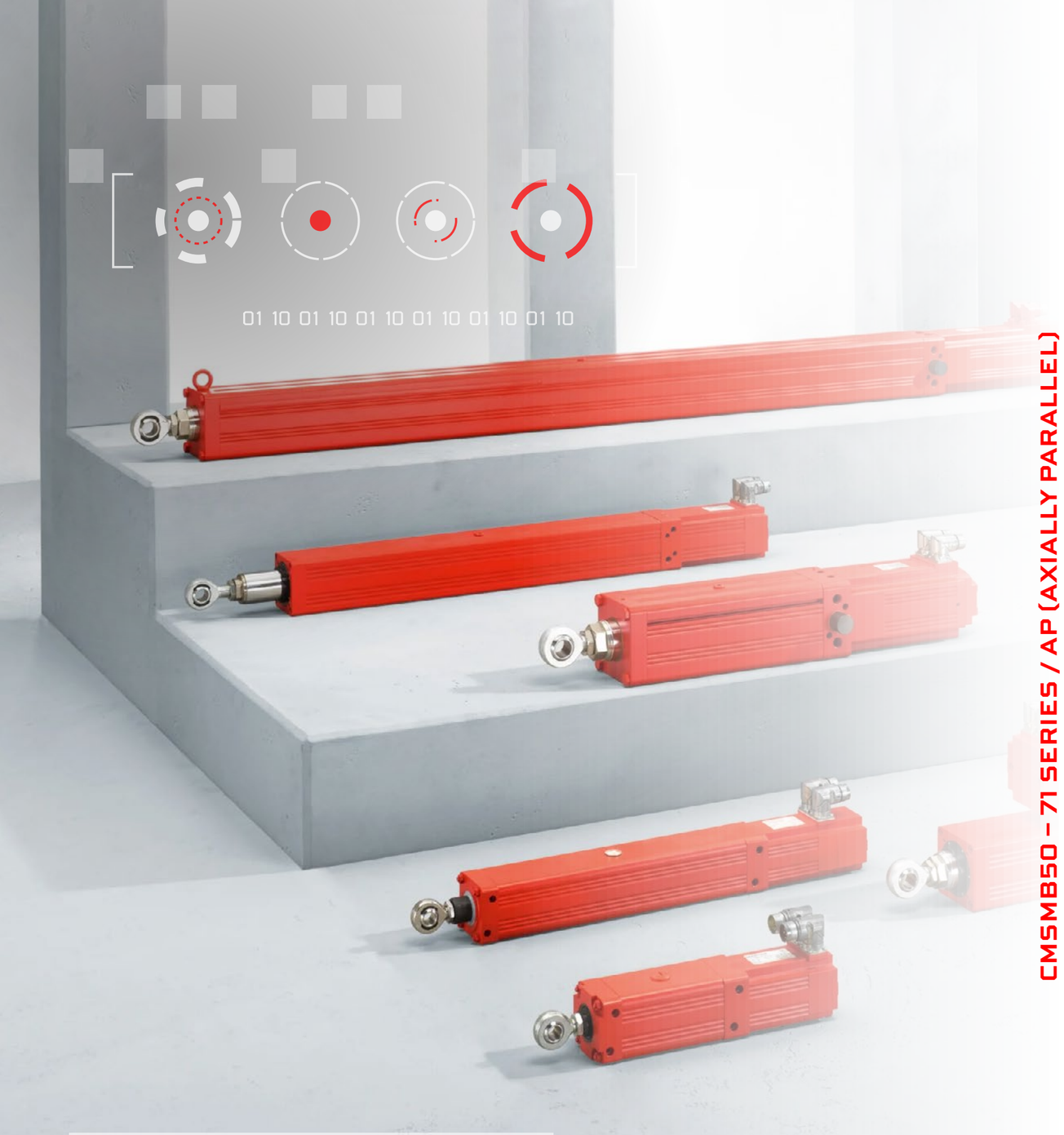
ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

ELECTRICAL DATA

Type	CMSMB50/ACH or ACA	CMSMB63/ACH or ACA	CMSMB71/ACH or ACA
Max. permitted input torque Nm	7	11.1	25
Max. permitted input speed rpm	4,500	4,500	4,500
Peak feed force N	8,000	10,000	24,000
Stroke lengths mm	70 / 100 / 150 / 200 / 300 / 400 / 600	60 / 100 / 160 / 180 / 200 / 400 / 600	100 / 160 / 200 / 400 / 600 / 800 / 1,000 / 1,200
Spindle type	KGT [1] 20x5	KGT [1] 25x6	KGT [1] 32x6

1) Maximum permitted torque



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

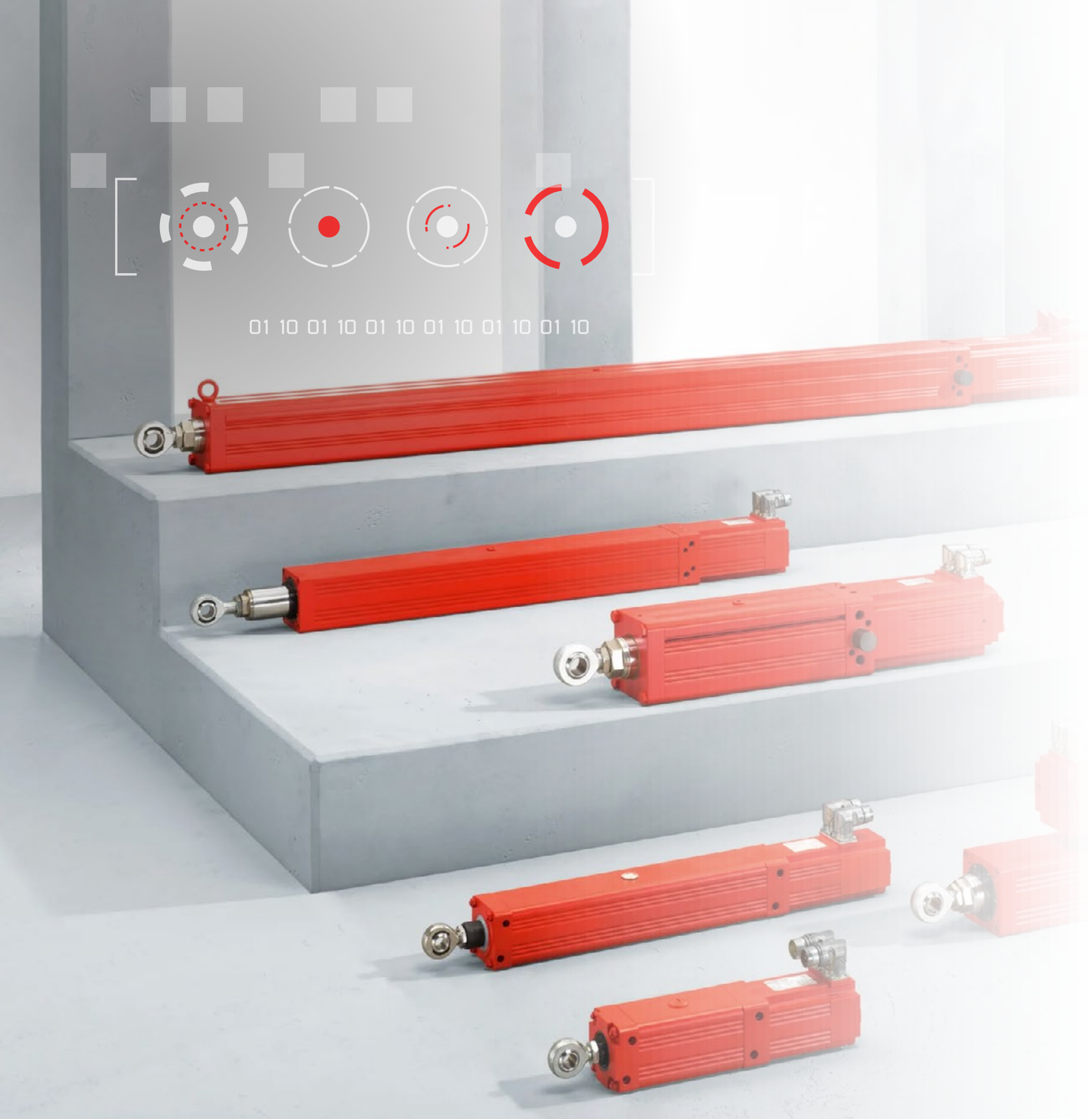
ELECTRICAL DATA

Type	CMSMB50/AP and		
	CMP50S	CMP50M	CMP50L
Max. torque Nm	5.2	7 [1)]	7 [1)]
Standstill torque Nm	1.3	2.4	3.3

MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT [2)] 25x6		
Max. continuous feed force N	1,200	2,200	2,200
Peak feed force N	5,300	8,000	8,000
Stroke lengths mm	70 / 100 / 150 / 200 / 300 / 400 / 600		
Max. velocity mm/s	375	375	375

1) Maximum permitted torque



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSMB63/AP

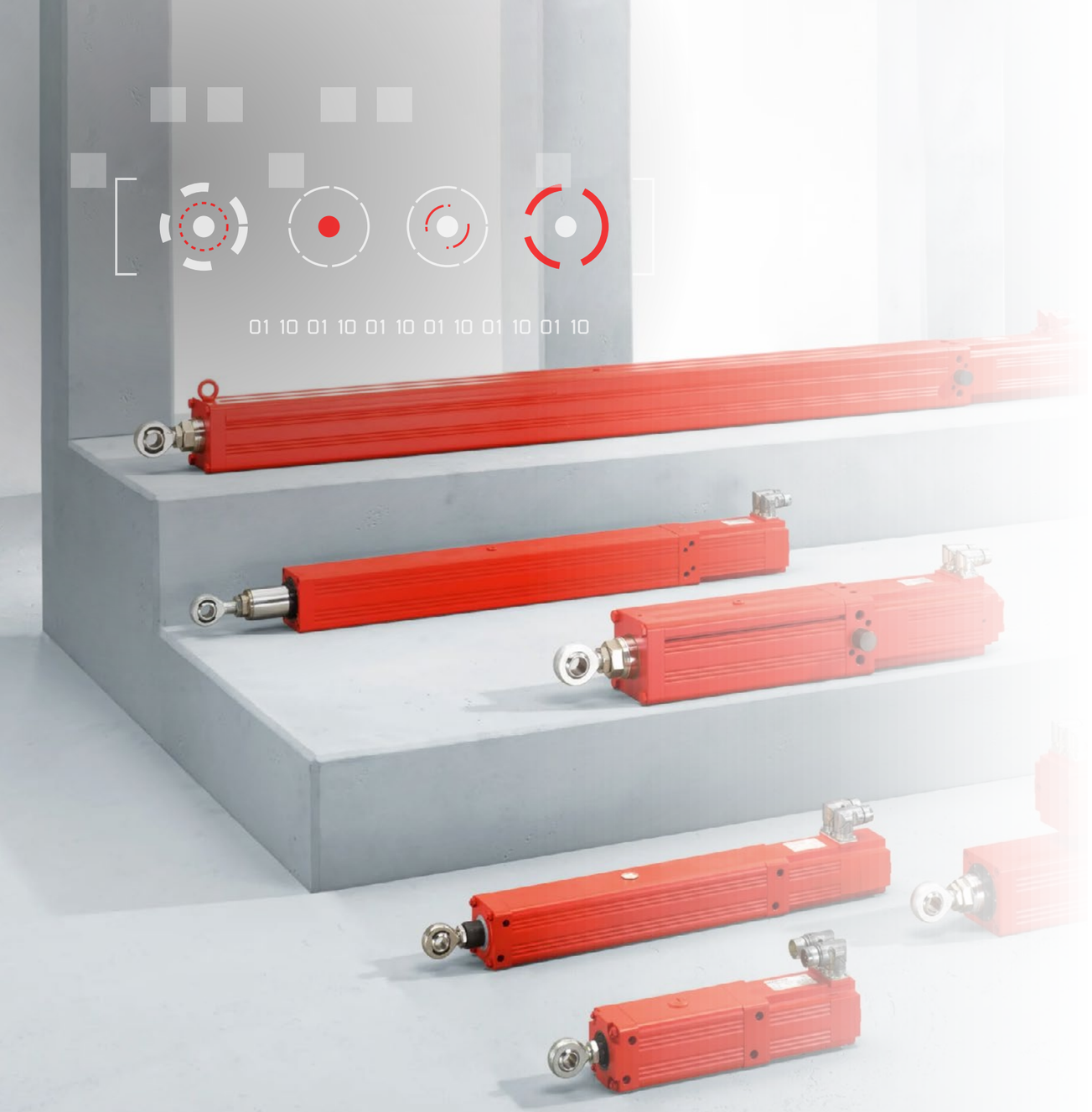
ELECTRICAL DATA

Type	CMSMB63/AP and		
	CMP63S	CMP63M	CMP63L
Max. torque Nm	11.1	11.1 [1]	11.1 [1]
Standstill torque Nm	2.9	5.3	7.1

MECHANICAL DATA

Rated speed n_N	3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT [2] 25x6		
Max. continuous feed force N	2,400	3,600	4,800
Peak feed force N	10,000	10,000	10,000
Stroke lengths mm	60 / 100 / 160 / 180 / 200 / 400 / 600		
Max. velocity mm/s	450	450	450

1) Maximum permitted torque



ELECTRIC CYLINDER OF THE CMS.. SERIES

ELECTRIC CYLINDER STANDARD CMS..

TECHNICAL DATA

CMSMB71/AP

ELECTRICAL DATA

Type	CMSMB71/AP and		
	CMP71S	CMP71M	CMP71L
Max. torque Nm	19.2	25 [1]	25 [1]
Standstill torque Nm	6.4	9.4	13.1

MECHANICAL DATA

Rated speed n_N	2,000 rpm / 3,000 rpm / 4,500 rpm / 6,000 rpm		
Spindle type	KGT [2] 32x6		
Max. continuous feed force N	5,000	7,500	10,000
Peak feed force N	18,000	24,000	24,000
Stroke lengths mm	100 / 160 / 200 / 400 / 600 / 800 / 1,000 / 1,200		
Max. velocity mm/s	450	450	450

1) Maximum permitted torque

AREAS OF OPERATION

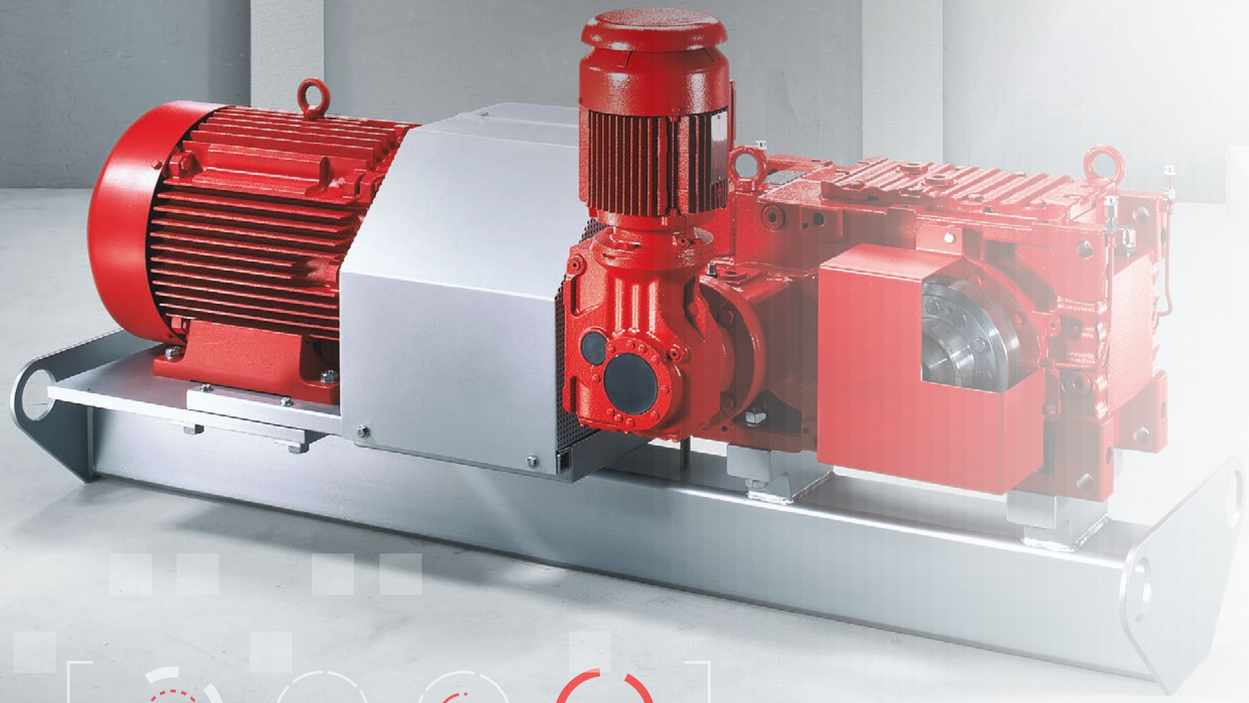
- → Process engineering or packaging technology
- → Handling
- → Printing and plastics industry
- → Wood processing

ALL IN-ONE SOLUTION FOR COAL MINING

CONVEYOR DRIVE APPLICATIONS

CUSTOMIZED DESIGN BASED ON YOUR REQUIREMENTS

LOCAL ASSEMBLY



01 10 01 10 01 10 01 10 01 10 01 10

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SWINGBASE

BENEFITS

All-in-one package

- All components are mounted together on a base plate to allow for simple installation

Customizable to customer requirements

- Any combination of gearbox, coupling, brakes, motors is possible – we can even design the base plate to fit into your space constraints
- Complete drive solution

Peace of mind

- The torque arms ensure flexibility in the system to ensure reliability
- Our drives are locally assembled for faster turn-around time

FEATURES

→ **Swingbase design configurations** are customized to customer requirements.
→ **Cooling** – Optimized cooling and heating systems for all ambient conditions – integrated and external cooling methods
→ **Starting method** – VSD, DOL or Fluid Coupling starting systems can be configured
→ **Installation** – Swingbase or Foot mount designs possible
→ **Torque Arm** – various torque arm configurations possible
→ **Guards** – All moving parts are covered by custom-made guards

APPLICATION

SEW-Eurodrive swingbase designs are predominantly used for conveyor drive applications, across all market sectors.



BELLHOUSING

BENEFITS

All-in-one package

- All components are mounted together on a bellhousing and skid to allow for easier movement and installation in tight spaces

Customizable to customer requirements

- Any combination of gearbox, coupling, brakes, motors is possible – we can even design the base plate to fit into your space constraints
- Complete drive solution

Self-aligning drive

- The bellhousing ensures a rigid structure between motor and gearbox, so there is no need to complete alignment upon installation

FEATURES

→ **Rigid design** – The rigid design of the bellhousing ensures the motor and gearbox are always truly aligned
→ **Skid design** – allows for the drive to be slid into the tight spaces under ground
→ **Starting method** – VSD, DOL or Fluid Coupling starting systems can be configured
→ **Installation** – Single torque arm mounting point for easy installation
→ **Guards** – All moving parts are covered by custom-made guards

APPLICATION

SEW-Eurodrive bellhousing drives are used in underground coal mining conveyor drives.

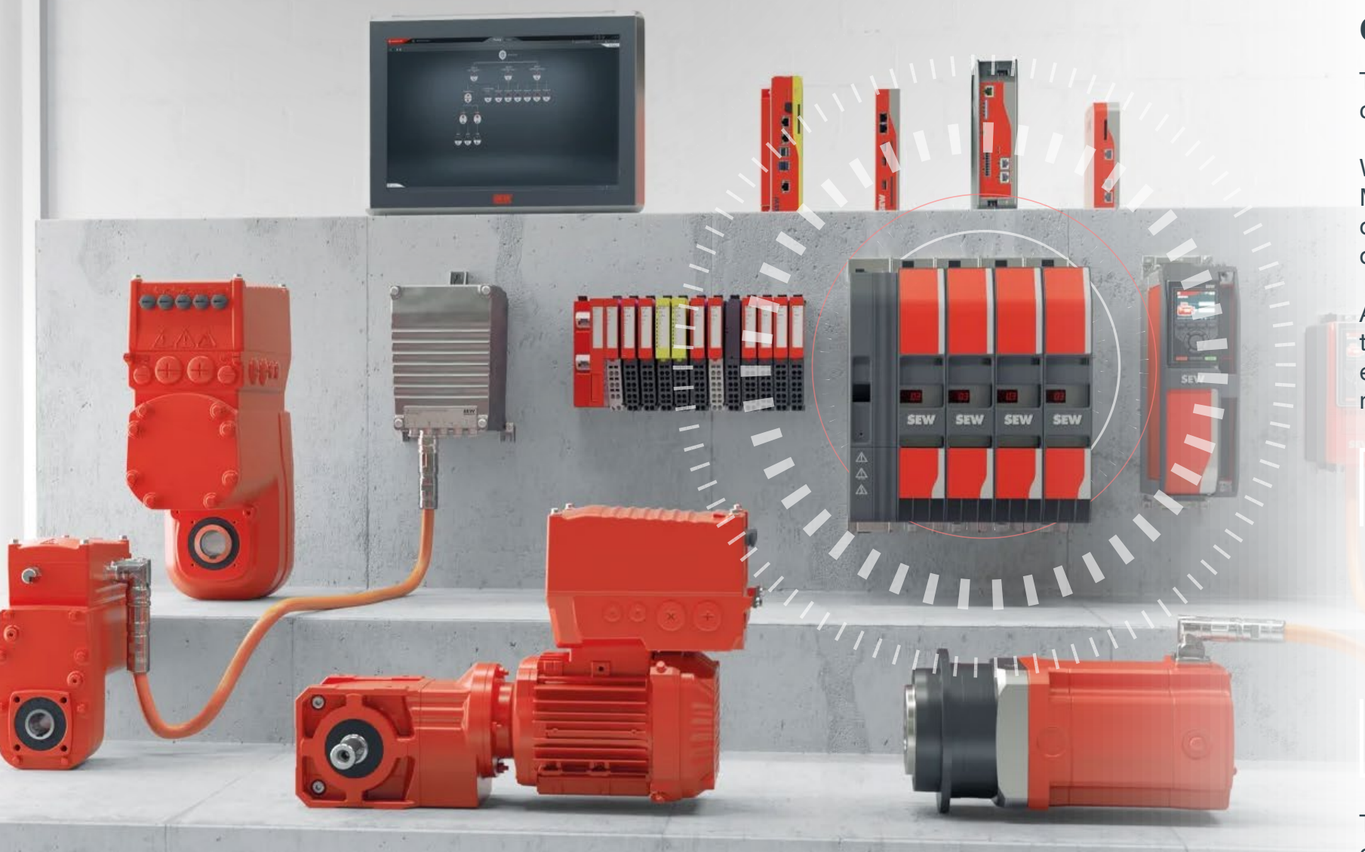
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NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

PRODUCT DESCRIPTION

Automation without the headaches? Absolutely! If you take motion control and automation control from the same source. Our control technology combines high-performance hardware, easily programmable software and user-friendly visualization solutions. Would you rather not have to do any programming? Not a problem. MOVI-C® comes with ready-made software modules for simple and complex control functions. All you have to do is set the parameters. Time-consuming programming is a thing of the past.

CONTROL TECHNOLOGY

The control technology is based on a common platform for control cabinet and decentralized controllers with the same functionalities and identical interface diversity.

Whether they are used for motion control, automation control or cyber-physical control tasks, MOVI-C® CONTROLLER units can be linked to the higher-level controller of a machine cell or system using classic fieldbus slave interfaces for the PROFINET, PROFIBUS, EtherNet/IPTM or Modbus TCP fieldbus systems.

Alternatively, they can be used as independent controllers for machines or systems, in which case they take care of smooth communication via EtherCAT® / SBUSPLUS with the subordinate devices, e.g. MOVIDRIVE® application inverters and their synchronous connection to the movement/application.



The performance class of a MOVI-C® CONTROLLER depends on the number of inverters and the number of synchronous axes and auxiliary axes required and to be configured for the movement. Four performance classes for up to 32/32, 16/16, 8/8 or 2/6 axes are available. All versions have a compact design, meaning they can fit into even small machine control cabinets.

The decisive added value for reducing complexity is provided by the integrated software of the central
and decentralized controllers: parameterizing instead of programming. For you as a user, this software means more scope for parameterization and less programming effort.

Our control technology and software also give you the option of writing your own programs. Would you prefer to create your own bespoke programs for your application, such as PLC functions or specific rules, so you can stand out from your competitors? If so, then our software platform has exactly what you need.

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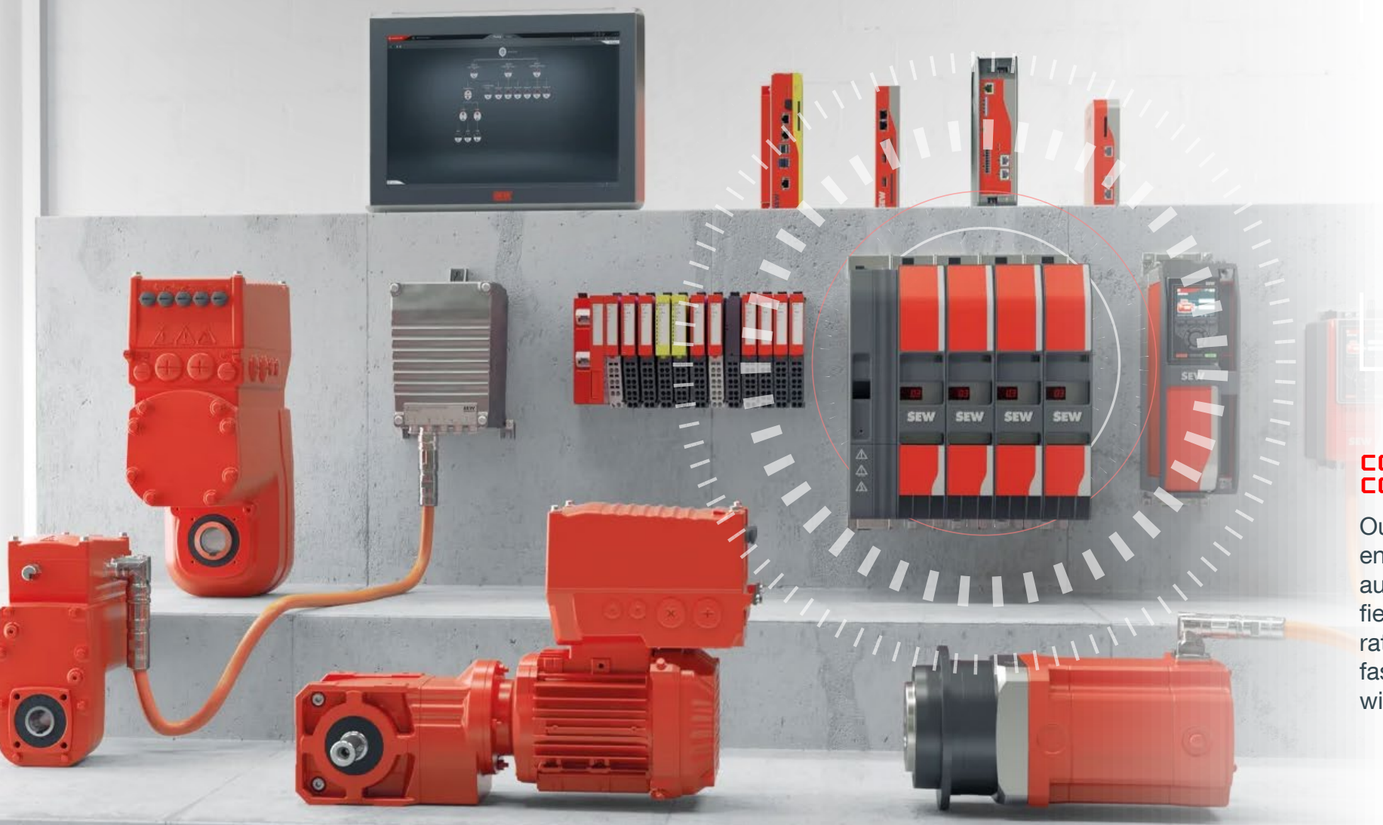
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NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

HARDWARE

SEW-EURODRIVE is continuously expanding the control technology in the MOVI-C® modular automation system with new hardware. The new components, perfectly matched to the existing MOVI-C® family, offer new, exciting options for implementing simple to complex systems.



CONTROL CABINET CONTROLLERS

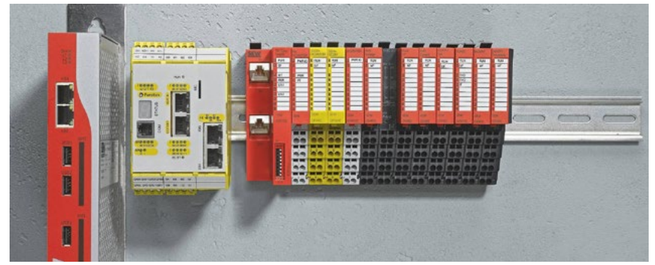
The controllers can be used both for challenging motion control tasks under any market-standard control system and as independent higher-level controllers for automation or even cyber-physical control tasks for complex machines and systems.

DECENTRALIZED CONTROLLERS

In addition to the drives with the MOVI-C® FIELD CONTROLLER standard and advanced, we also offer motion controllers suitable for customized applications. The housing's high degree of protection ensures the controller can be flexibly used in the field – without needing an additional control cabinet.

CONTROL CABINET CONTROLLERS

Our MOVI-PLC® I/O modules enable you to expand your automation network and connect all field units. High bus transmission rate, simple click connection for fast mounting, space-saving and with clear installation.

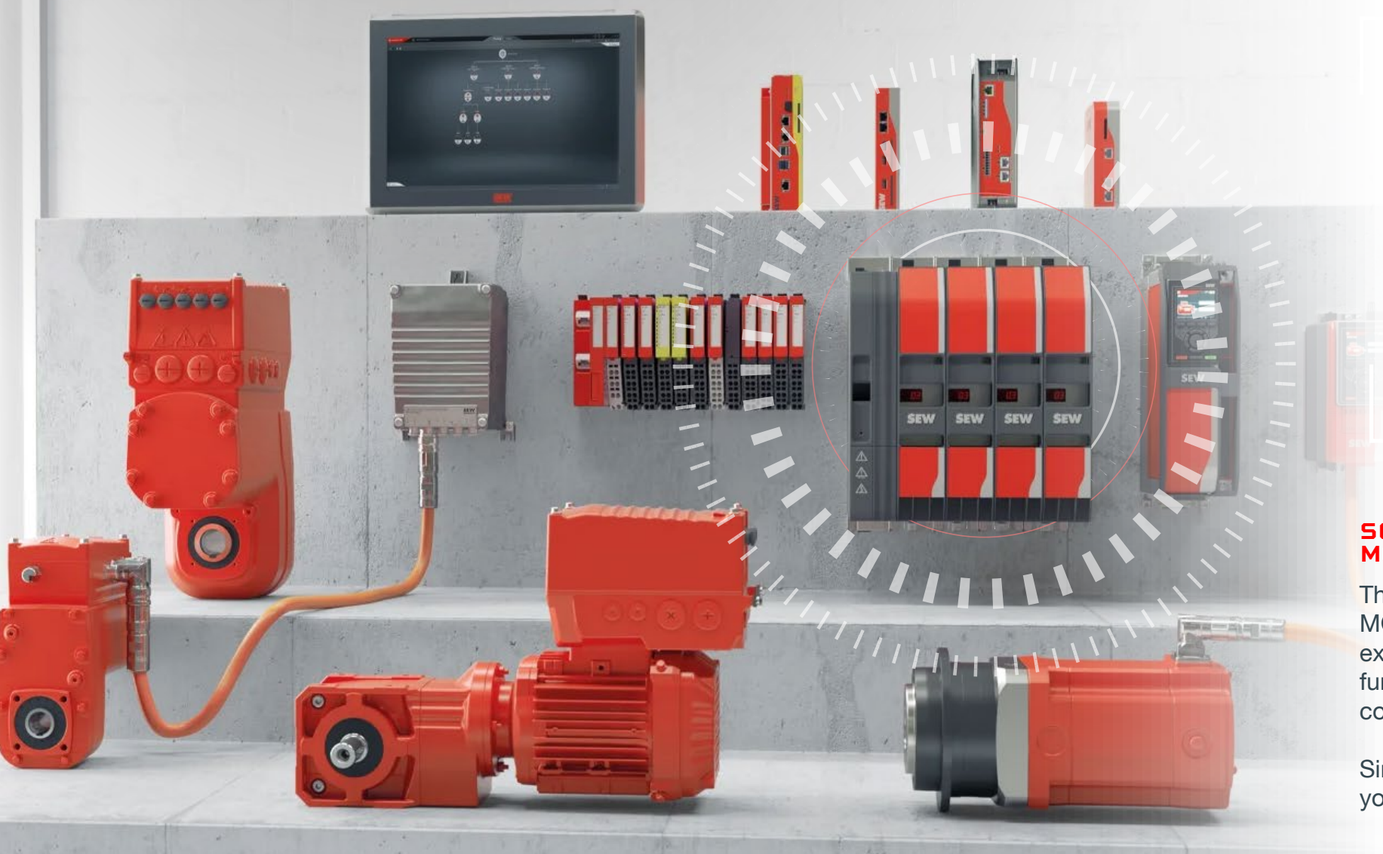


NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

SOFTWARE

MOVI-C® means motion control without headaches. The MOVI-C® controllers with software modules MOVIKIT® ensure the movement of the various handling units or production machines. For engineering and startup of your application, the MOVI-C® modular automation system also offers the right software solution with MOVISUITE®. Always with the aim of reducing your time and programming efforts.



ENGINEERING SOFTWARE MOVISUITE®

MOVISUITE® enables you to start up and diagnose the drive train easily and quickly - from the inverter to the controller.

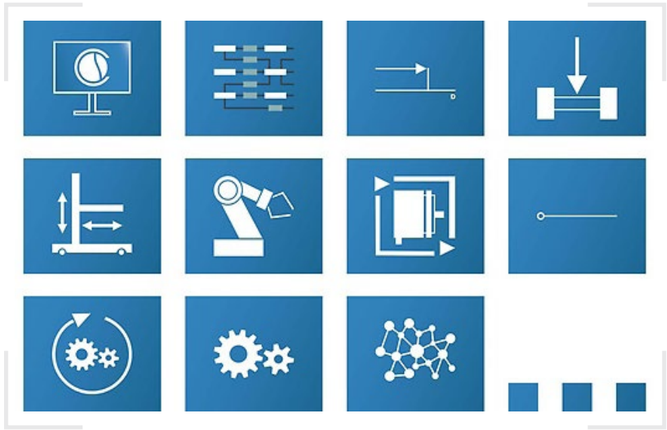
SOFTWARE PLATFORM MOVIRUN®

The MOVIRUN® software platform on the MOVI-C® CONTROLLER or MOVI-C® FIELD CONTROLLER handles the coordination of the axes and the execution of the software modules MOVIKIT®.

SOFTWARE MODULE MOVIKIT®

The range of ready-made MOVIKIT® software modules extends from simple drive functions to sophisticated motion control and robotics functions.

Simply parameterize and off you go.



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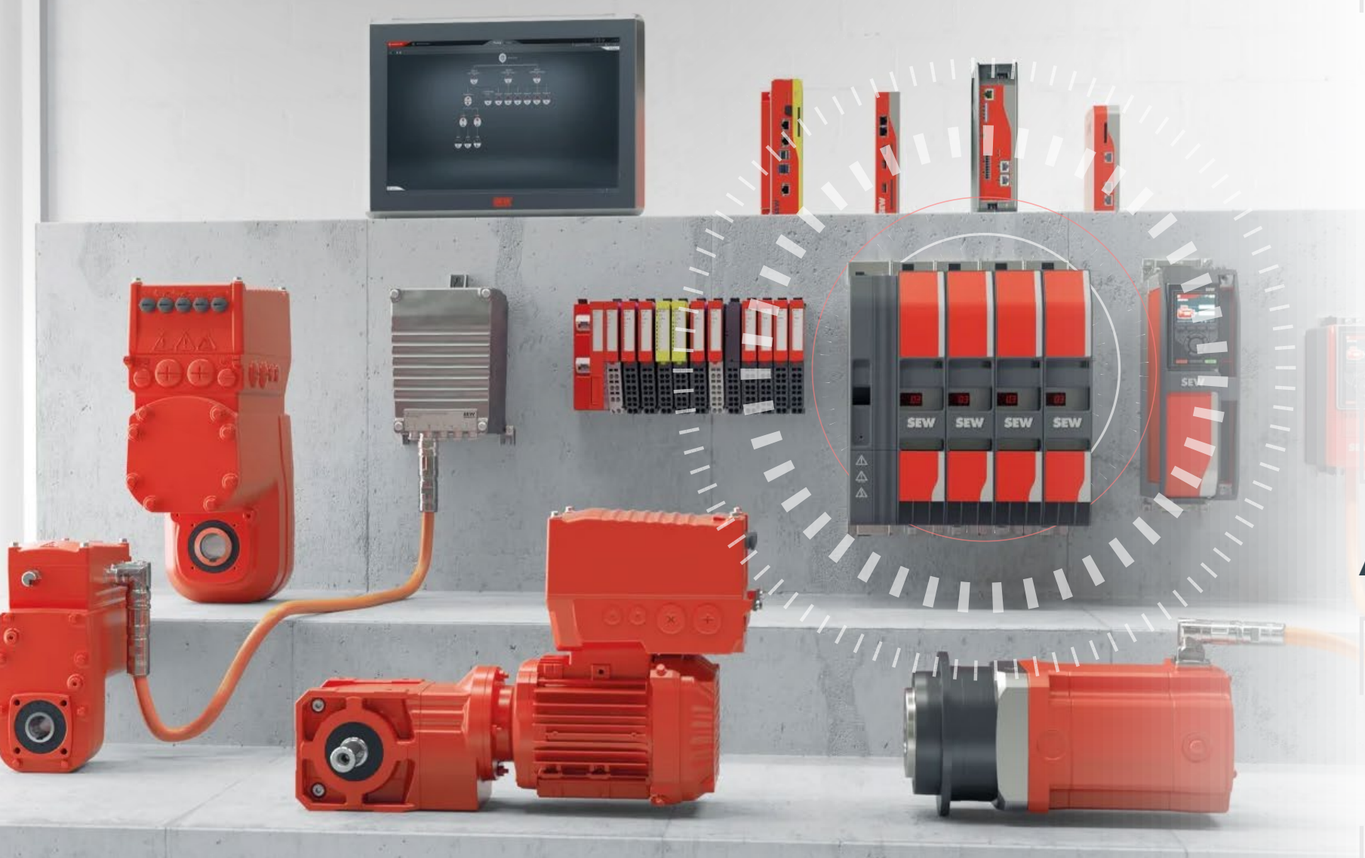
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NEW AND IMPROVED AUTOMATION RANGE

READY-MADE SOFTWARE MODULES

CONTROL TECHNOLOGY

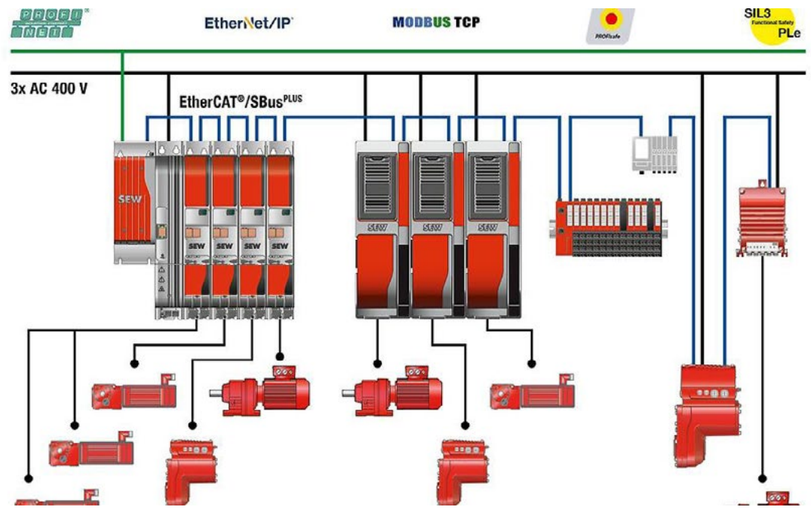
SEW-EURODRIVE ACCESSORIES AVAILABLE



MOVI C®

TOPOLOGIES

The CONTROLLERs from the MOVI-C® modular automation system can solve a range of tasks with ease. A variety of options are available for integrating them into the system topology, depending on requirements or application.



ACCESSORIES AND OPTIONS

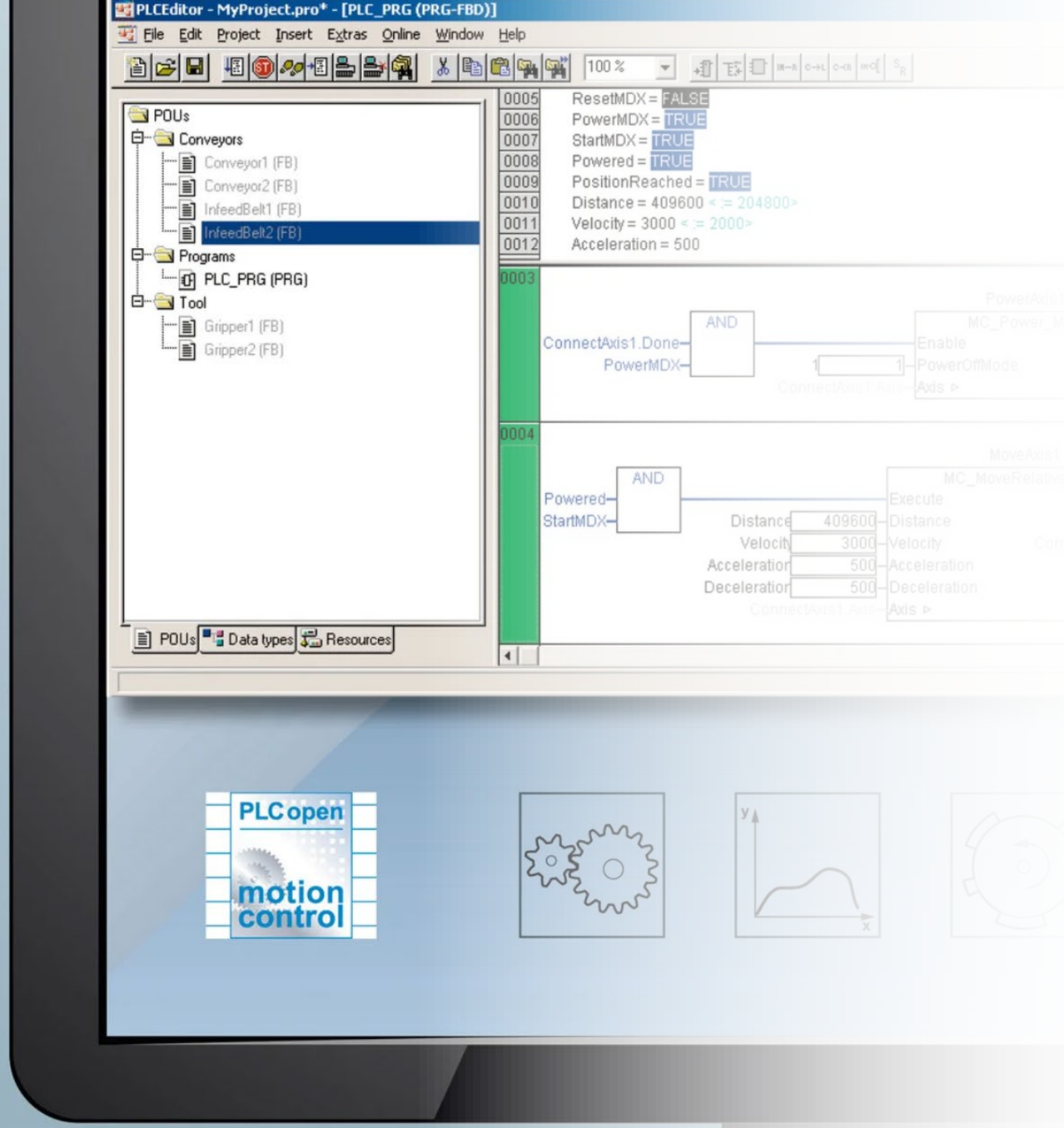


VISUALIZATION

It's important to keep track of sophisticated drive tasks involving a large number of axes. We are therefore now offering a three-part modular system that covers every conceivable requirement – from standard to customized visualization.

MOVI-PLC® I/O MODULES

Our MOVI-PLC® I/O modules enable you to expand your automation network and connect all field units. High bus transmission rate, simple click connection for fast mounting, space-saving and with clear installation.



MULTIMOTION MOTION CONTROL PLATFORM

PRODUCT DESCRIPTION

The more complex the automated motion sequence, the more important it is to have an efficient engineering solution that provides convenient access to a wide range of motion control functionalities.

EFFICIENT ENGINEERING SOLUTIONS WITH OUR MULTIMOTION MOTION CONTROL PLATFORM

The drive solutions used in machines can be very diverse. Functionality can range from basic speed specification, positioning, and synchronized movement of axes with electronic cams, right through to robotics, where multiple axes are required to follow a precisely defined spherical curve.

The range of drives and drive electronics that are used in these applications is equally diverse. The MultiMotion motion control platform helps users to handle this diversity and quickly achieve their goal thanks to an efficient engineering solution.

The MultiMotion platform focuses on the following:

- As much configuration as possible – complicated programming of complex technology functions is no longer necessary
- As much programming as necessary – flexibility for any customizations needed, with possibility of extensions
- Support via graphical tools – guided configuration of standard functions, user-friendly diagnostics
- Standardized interfaces – access from the application program via a standardized interface

When it comes to creating customized solutions, the MultiMotion motion control platform provides maximum support. Many motion control functions can be accessed directly thanks to graphical configuration, which means you don't waste valuable time on tedious programming. You can still design your application program according to your own requirements and access drive functions via a standardized interface. You can also extend your MultiMotion motion control platform by adding individual technology modules and benefit from the additional functionality provided.

BENEFITS

Universal platform
We provide support for all controllers in all performance classes as well as the entire range of drive electronics

Comprehensive functionality
Thanks to the integration of a wide range of motion control functions

Simple configuration
Graphical tools are provided for configuration and diagnostics

Efficient engineering
Many functions can be implemented after simple configuration

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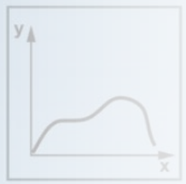
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MULTIMOTION MOTION CONTROL PLATFORM







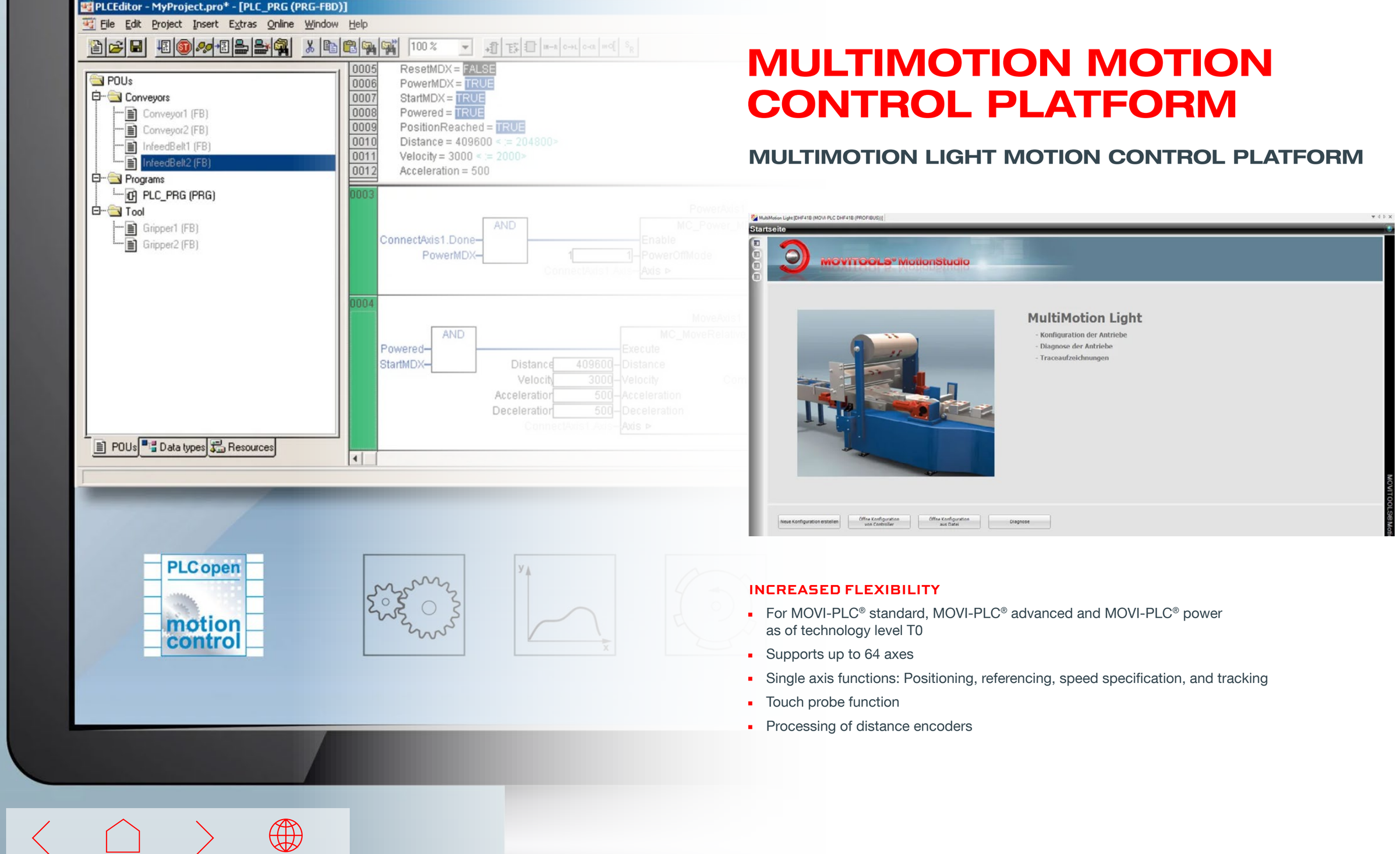


FREELY PROGRAMMED APPLICATIONS

- For MOVI-PLC® advanced and MOVI-PLC® power as of technology level T2
- Supports up to 64 axes
- Single axis functions: Positioning, referencing, speed specification, and tracking
- Touch probe function
- Processing of distance encoders
- Technology functions: Synchronous operation, electronic cam functions, and interpolation with different engagement and disengagement mechanisms
- Cam switch for up to 8 cam tracks

MULTIMOTION MOTION CONTROL PLATFORM

MULTIMOTION LIGHT MOTION CONTROL PLATFORM



INCREASED FLEXIBILITY

- For MOVI-PLC® standard, MOVI-PLC® advanced and MOVI-PLC® power as of technology level T0
- Supports up to 64 axes
- Single axis functions: Positioning, referencing, speed specification, and tracking
- Touch probe function
- Processing of distance encoders

MULTIMOTION MOTION CONTROL PLATFORM

HANDLINGKINEMATICS TECHNOLOGY MODE



CONFIGURE AND CUSTOMIZE WITH EASE

Features

- If the configurable CCU HandlingKinematics application module covers all of your functional requirements, but you require greater flexibility, opt for the HandlingKinematics technology module for the freely programmable MOVI-PLC®

Benefits

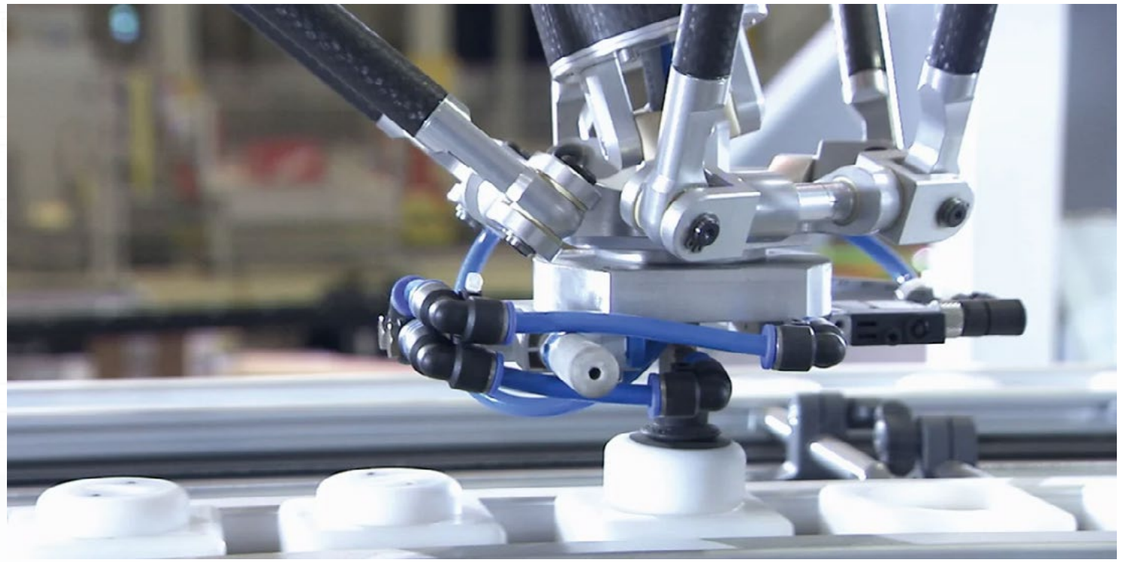
- Effortless configuration of entire motion paths for handling applications
- Ability to extend and modify the fieldbus interface according to your needs: you can control the technology module directly, or via signals in your MOVI-PLC® program
- All sensors and actuators used for motion control can be connected to our MOVI-PLC®

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MULTIMOTION MOTION CONTROL PLATFORM

KINEMATICS TECHNOLOGY MODULE



SPECIAL PATHS CAN BE PROGRAMMED EASILY

Features

- If your functional requirements go beyond those met by the HandlingKinematics technology module, opt for the Kinematics technology module which offers maximum functionality

Benefits

- Maximum flexibility thanks to the ability to access all motion parameters for each motion sequence
- Handling and processing of moved objects
- Synchronization of multiple robots, synchronization with conveyor belts, CAM profiles, etc.

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MULTIMOTION MOTION CONTROL PLATFORM

EFFISRS TECHNOLOGY MODULE FOR ENERGY-EFFICIENT STACKER CRANES



SUPPORTS SUSTAINED ENERGY-EFFICIENT OPERATION OF HIGH-BAY WAREHOUSES

Features

- Supports the energy-efficient operation of high-bay warehouses

Benefits

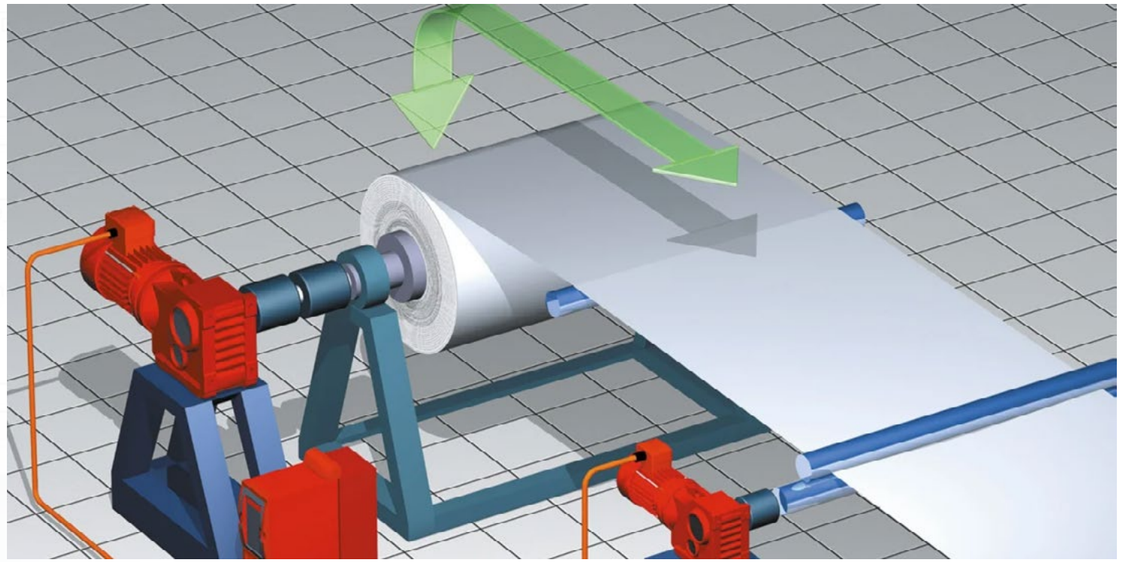
- Energy-efficient coordination of vertical lifting and horizontal travel axes
- Support for one or two vertical lifting drives
- Slackness detection, buffer storage, optional recovery

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MULTIMOTION MOTION CONTROL PLATFORM

WINDER TECHNOLOGY MODULE



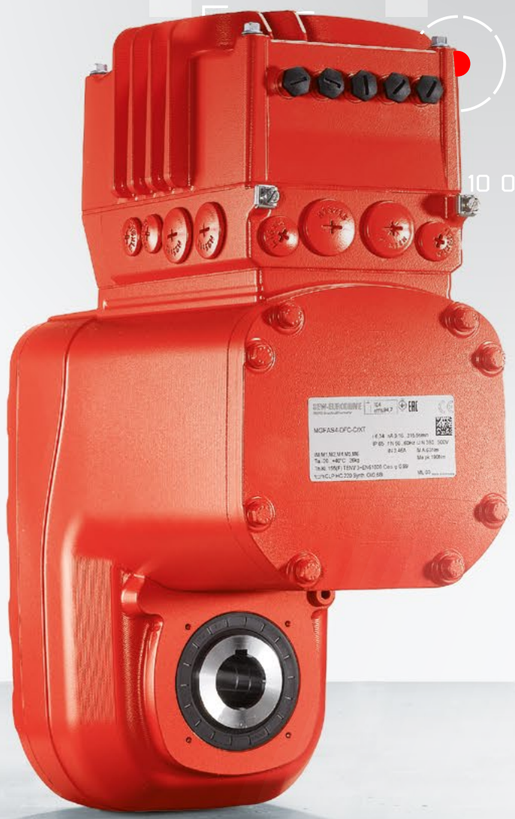
WIND AND UNWIND MATERIAL AT A CONSTANT TENSION OR LINE SPEED

Features

- Designed for applications that require the winding or unwinding of material based on a constant tension or line speed
- Different winding technologies for different materials and machine situations

Benefits

- Tension determined by winder via torque control, tension control, and jockey position adjustment
- Speed determined by winder with optional speed control



IE5 ENERGY RATING

FULLY INTEGRATED AND COMPACT DESIGN

DECENTRALIZED MECHATRONIC DRIVES

MOVIGEAR® PERFORMANCE

PRODUCT DESCRIPTION

Decentralized drive technology couldn't be more intelligent, lean, efficient and cost-effective than this. The MOVIGEAR® performance drive unit combines motor, gear unit and inverter in a single housing. What's more, the decentralized inverter from the MOVI-C® modular automation system means the drive unit can be used in all standard Ethernet-based infrastructures.

Based on the MOVI-C® modular automation system, we have further enhanced our MOVIGEAR® drive unit for your benefit. MOVIGEAR® performance complements existing products in terms of functionality and consistency and extends the range of possible applications for our decentralized drive technology, which has been proving its worth for decades.

The MOVIGEAR® performance drive unit consists of a decentralized inverter, a permanent-field synchronous motor and a gear unit. These three core components are located in a single compact aluminum die cast housing. MOVIGEAR® performance is therefore a compact, ready-to-use system that reliably takes less time to handle huge volumes.

BENEFITS

Compact
0.8 - 2.1 kW nominal power, and up to 6.3 kW peak power, fully integrated, up to 50 % lighter than conventional drive solutions

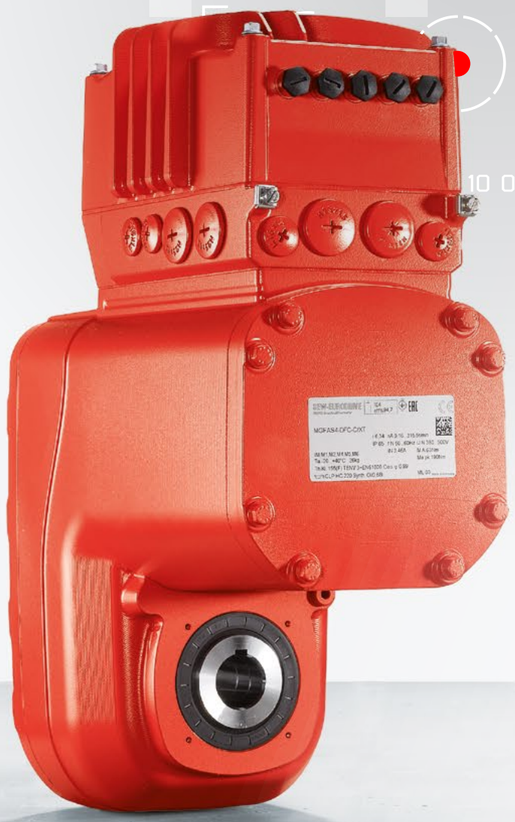
Universal
Variant reduction through optimal dimensioning based on a wide speed range and pronounced overload capability up to 300 % of the rated torque

Efficient
Efficiency class of the motor IE5 according to IEC TS 60034-30-2 and system power loss up to 50 % lower than IES2 according to IEC 61800-9-2

Low noise
75 % quieter than commercially available three-phase motors and hygienic convection cooling without a fan

Connective
Powerful connection to all common communication systems

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IE5 ENERGY RATING

FULLY INTEGRATED AND COMPACT DESIGN

DECENTRALIZED MECHATRONIC DRIVES

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MOVIGEAR® PERFORMANCE

FEATURES

- **Fully integrated and compact design:** Permanent magnet synchronous motor, gear unit and inverter combined in a single mechatronic drive unit
- **Universal mounting position /MU (M1, M2, M3, M4, M5, M6):** Pressure compensation of gear unit /PG
- **Hollow shaft design:**
  - With key
  - With TorqLOC® hollow shaft mounting system
- **Hollow shaft diameter:**
  - MGF..2-C: 20 mm, 25 mm, 30 mm, 35 mm, 40 mm
  - MGF..4-C / MGF..4-C/XT: 30 mm, 35 mm, 40 mm

APPLICATION

- **Dynamic materials handling technology:**
  - With speed-controlled axes
  - Positioning tasks also possible
- **Areas of application:**
  - Horizontal conveyor systems for intralogistics and parcel logistics
  - Food and beverage industry
  - Automotive industry
  - Baggage handling at airports

TECHNICAL DATA

Series/design	MGF..2-C	MGF..4-C	MGF..4-C/XT
Weight kg	16	26	28
Torque class Nm	200	400	400
Nominal power kW	0.8	1.5	2.1
Output speed range min-1	0.9 – 593	0.9 – 566	0.9 – 566
Connection voltage V	380 V – 500 V at 50/60 Hz	380 V – 500 V at 50/60 Hz	380 V – 500 V at 50/60 Hz
Hollow shaft diameter mm	20 / 25 / 30 / 35 / 40	30 / 35 / 40	30 / 35 / 40



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

PRODUCT DESCRIPTION

Mobile transport and assistance systems are putting an end to inflexible processes in production logistics, intralogistics, and manufacturing. Our service portfolio extends from planning, vehicle design, and vehicle production through to startup and our installed base service.

PRODUCTION AND LOGISTICS SOLUTIONS IN ALL INDUSTRIES

The mobile, autonomous transport systems combine modular and scalable hardware and software solutions – with customized configuration from the innovative MAXOLUTION® modular technology system:

- Bidirectional, free-ranging mobility with drive modules from SEW-EURODRIVE
- Customized configuration with specific load handling devices for easy integration into the process
- Application-specific functions such as cycle mode and continuous operation, assembly assistance, changes of level thanks to an elevator function, and load transfer from vehicle to vehicle
- Optimized for small and large, light and heavy loads
- Vehicle designs protected against dust and splash water, cleanroom solutions to ISO 6 and for applications with more stringent hygiene requirements
- VDA 5050 interoperable communication interface
- MAXOLUTION® connected for optimum planning and control of vehicle fleets

BENEFITS

Modular
From the MAXOLUTION® modular technology system for adaptability and maximum availability

Customized
Application-specific functions and vehicle designs – adapted to suit your particular needs

Efficient
Intelligent, contactless charging on the move ensures the entire system can be effectively utilized to its fullest extent

Flexible
Customer-specific interfaces for easy integration of various load handling devices



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → Compact vehicle design
- → Omni-directional manner of driving
- → Integrated lifting mechanism
- → The assistant picks up loads by driving under them and lifting them
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface
- → Reliable load detection

APPLICATION

- → Internal transportation of various load carriers such as frames and racks
- → Ideal for narrow routes and flexible maneuvering when delivering loads thanks to compact vehicle design and omnidirectional operation
- → Processes with high demands in terms of capacity utilization, thanks to intelligent, contactless charging during operation

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Conveyor
L = 1200 mm, W = 860 mm, H = 380 mm	Up to +/-10 mm	Max. 1.6 m/s	Integrated lifting mechanism (150 mm, stepless)
Payload	**Navigation**	**Drive concept**	**Power supply**
600 kg	Laser navigation, fine positioning, laser parking	Omnidirectioal operation with drive module from SEW-EURODRIVE	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**	**Safety**	**Object protection**
400 kg	Wi-Fi, 5G, VDA 5050, Full Safety	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

- → Drive module O, omnidirectional drive unit
- → TDM90E, pick-up (contactless, line)
- → EXK24, intelligent battery charger
- → MOVISAFE®, Safe Kinematic safety module
- → Brake caster, swivel caster with integrated secure holding brake
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation

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LOGISTICS ASSISTANT FOR TRANSPORTING PALLETS



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → The assistant picks up loads by driving under them and lifting them
- → Customized load handling
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface
- → Reliable load detection

APPLICATION

- → Internal transportation of various large load carriers such as pallets and cage pallets
- → Processes with high demands in terms of capacity utilization, thanks to intelligent, contactless charging during operation

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 1500 mm, W = 1000 mm, H = 510 – 660 mm	+/-2 mm to +/-10 mm	Max. 1.5 m/s	Lifting distance 150 mm
Payload	**Navigation**	**Drive concept**	**Power supply**
1500 kg	Laser navigation, fine positioning, laser parking	Bidirectional operation with drive module from SEW-EURODRIVE, differential drive	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**		
570 kg	Wi-Fi, 5G, VDA 5050		

MODULAR TECHNOLOGY SYSTEM

- → L100 drive module, bidirectional drive unit TDM80E, pick-up (contactless, point)
- → EXK24, intelligent battery charger
- → MOVISAFE®, Safe Kinematic safety module
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation

LOGISTICS ASSISTANT FOR CLEANROOMS AND MORE STRINGENT HYGIENE REQUIREMENTS



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → Cleanroom design to ISO 6 requirements, including stainless steel surface and abrasion-optimized wheels
- → Flexible integration of various load handling devices
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface

APPLICATION

- → Internal transportation of various large load carriers such as pallets, cage pallets, and special load carriers
- → Ideal for cleanrooms and hygienic rooms in line with ISO 6 requirements
- → Controlled transition into and out of a cleanroom thanks to load transfer from vehicle to vehicle

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 1400 mm, W = 1000 mm, H = 350 mm (without load handling device) L = 1400 mm, W = 1200 mm, H = 600 mm (with load handling device)	Up to +/-10 mm	Max. 1.5 m/s	Conveyor (transfer height: 500 mm)

Payload	Navigation	Drive concept	Power supply
1350 kg without load handling device 1000 kg with load handling device	Laser navigation, fine positioning, laser parking, safe data matrix positioning	Bidirectional operation with drive module from SEW-EURODRIVE Omnidirectional operation on request	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional

Weight	Communication	Safety	Object protection
500 kg without load handling device	Wi-Fi, 5G, VDA 5050	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

- → L100 drive module, bidirectional drive unit
- → TDM80E, pick-up (contactless, point)
- → EXK22, intelligent battery charger
- → MOVISAFE®, Safe Kinematic safety module
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation

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LOGISTICS ASSISTANT FOR ASSEMBLY APPLICATIONS AND PROCESS INTERLINKING



MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- → Omni-directional manner of driving
- → Application-specific assembly devices such as tool holders, integrated oil pans, and much more besides
- → Load handling by integrated conveyor
- → Contactless charging on the move
- → Free contour navigation with parking function
- → VDA 5050 interoperable communication interface
- → Reliable load detection

APPLICATION

- → Interlinking various internal process steps such as the linking of workstations or transfer to automated cells
- → Transporting trays and shelves for components and tools
- → Human-machine collaboration, helping staff with functions such as ergonomic lifting, displaying assembly information, etc.
- → Perfect as a mobile workbench for assembly work, even with high process forces

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 1200 mm, W = 860 mm, H = 903.5 mm	Up to +/-10 mm	Max. 1.5 m/s	Belt conveyor
Payload	**Navigation**	**Drive concept**	**Power supply**
300 kg	Laser navigation, fine positioning, laser parking	Omnidirectional operation with drive module from SEW-EURODRIVE	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**	**Safety**	**Object protection**
600 kg	Wi-Fi, 5G, VDA 5050	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

- → Drive module O, omnidirectional drive unit
- → TDM90E, pick-up (contactless, line)
- → EXK24, intelligent battery charger
- → MOVI-DPS®, storage capacitor for power supply
- → MOVISAFE®, Safe Kinematic safety module
- → Brake caster, swivel caster with integrated secure holding brake
- → Operator panel, interface module with main switch
- → Light module for optical and acoustic signals
- → Control module, vehicle controller with status visualization
- → Navigation module for free laser-based navigation
- → Sensor module, inductive track guidance with RFID sensor

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MOBILE TRANSPORT AND ASSISTANCE SYSTEMS

FEATURES

- For heavy and large loads
- Omnidirectional operation, e.g. for area buffer application
- Integrated lifting mechanism
- Contactless charging on the move
- Free contour navigation with parking function

VDA 5050 interoperable communication interface

APPLICATION

- Specifically for transporting frames/trays with high loads (payload of up to 3000 kg)
- Loosely interlinks process modules such as robot cells or area buffers

TECHNICAL DATA

Dimensions	Positioning accuracy	Speed	Load handling device
L = 3800 mm, W = 1100 mm, H = 450 mm	Up to +/-10 mm	Max. 1 m/s	Integrated lifting mechanism (105 mm, stepless)
Payload	**Navigation**	**Drive concept**	**Power supply**
3000 kg	Laser navigation, fine positioning, laser parking, safe data matrix positioning	Omnidirectional operation with drive module from SEW-EURODRIVE	Inductive charging with MOVITRANS®, lithium-ion battery, storage capacitor optional
Weight	**Communication**	**Safety**	**Object protection**
1370 kg without load handling device	Wi-Fi, 5G, VDA 5050	Extensive safety functions, including dynamic safety zone switching	3D object detection

MODULAR TECHNOLOGY SYSTEM

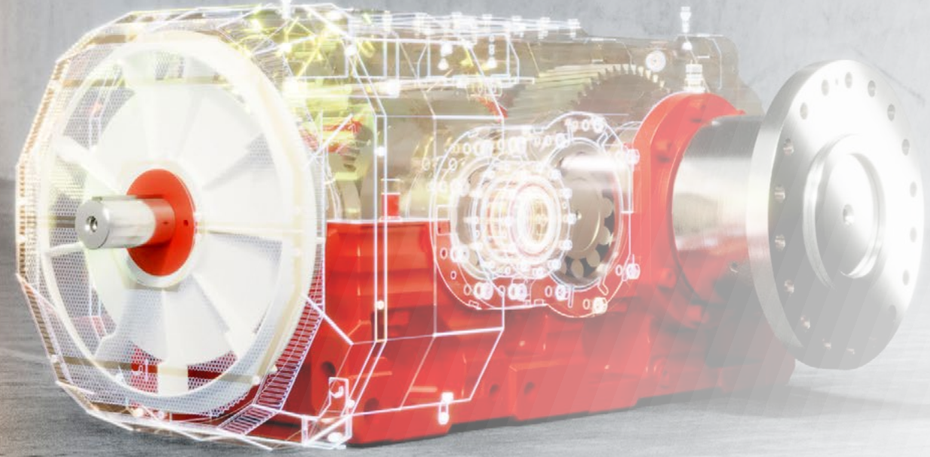
- DO drive module, two omnidirectional drive units
- TDM80E, pick-up (contactless, point)
- EXK24, intelligent battery charger
- MOVI-DPS®, storage capacitor for power supply
- MOVISAFE®, Safe Kinematic safety module
- Brake caster, swivel caster with integrated secure holding brake
- Operator panel, interface module with main switch
- Light module for optical and acoustic signals
- Control module, vehicle controller with status visualization
- Navigation module for free laser-based navigation

NEW AND IMPROVED INDUSTRIAL GEAR BOX

MODULAR DESIGN

LESS MAINTENANCE INTERVALS AND HIGHER PRODUCTION OUTPUTS

RELIABLE HIGH TORQUE RATINGS



X.e SERIES

PRODUCT DESCRIPTION

With 23 finely graduated sizes, the helical and bevel-helical gear units of the X..e series cover the torque range from 7.2 to 500 kNm. The extensive modular program and the large number of predefined additional equipment and options offer a high degree of flexibility for adaptation to the application situation. Regardless of whether you are a plant manufacturer or operator - the X..e series offers the right solution for every requirement.

BENEFITS

Power
Increase in nominal torques even with additional external loads for a reduction in size. Result: lower investment costs and smaller installation space in the plant.

Safety
Installation individual rolling bearings with short delivery times such as thermal design according to simulated ambient conditions. Result: less maintenance intervals and higher plant availability.

Efficiency
A sustainable drive solution thanks to extensive adaptation and optimization options. Result: reduced power loss, lower oil demand, and lower total cost of ownership.

FEATURES

- Independent industrial gear unit platform with **23 sizes**
- **Helical** gear units and **bevel-helical** gear units
- **Single-piece** and **split gear** unit housing
- **Invertible** gear unit housing
- **Universal** mounting positions
- **Distinctive** modular technology
- **Diverse** predefined optional equipment and options
- **Customer-specific** adaptations possible

APPLICATION

Our helical and bevel-helical gear units are used wherever reliably high torques are required.
The modular design with many additional features and options allows the X..e series to be individually adapted to your application-specific requirements.

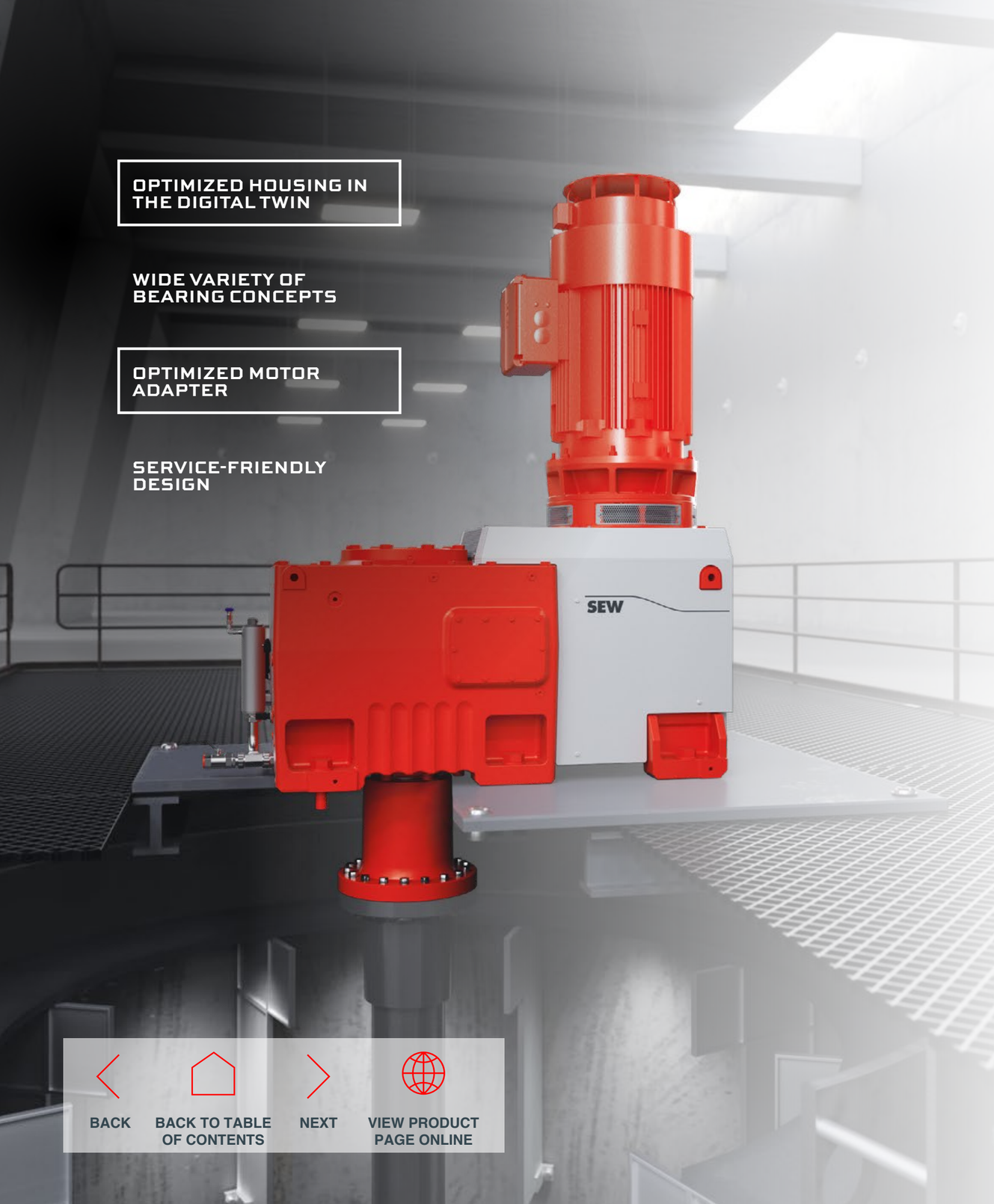
In use worldwide:

- Mining and open pit mining
- Recycling industry
- Crane technology
- Water and wastewater technology
- Steel industry and many more

TECHNICAL DATA

Gear unit design	Stages	Gear ratio i	Nominal torque MN2 kNm
Helical gear unit X.F.100e – X.F.320e	2 to 4 stages	6.3 – 450	0.5 – 248
Bevel-helical gear unit X.K.100e – X.K.320e	2 to 4 stages	6.3 – 450	7.2 – 500
Bevel-helical gear unit* X.T.100e – X.T.250e	3 and 4 stages	12.5 – 450	7.2 – 185

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OPTIMIZED HOUSING IN THE DIGITAL TWIN

WIDE VARIETY OF BEARING CONCEPTS

OPTIMIZED MOTOR ADAPTER

SERVICE-FRIENDLY DESIGN

X.e AGITATOR

PRODUCT DESCRIPTION

Internal pressure lubrication optimizes the supply to the gear unit, while the specially designed split housing and the innovative sealing concept guarantee leak-free operation. Airflow-optimized motor adapters and air baffles ensure maximum heat dissipation and a consistently excellent level of performance. Use X.e agitator and mixer drives in your application. Our machine elements are designed to perform reliably, even in the most challenging applications.

BENEFITS

Power
The housing has been optimized in the digital twin and the shafts made larger so that the drives can support even the heaviest loads.

Safe operation
The fail-safe design ensures with 100% certainty that no oil leaks out.

Easy maintenance
A service-friendly design (including pop-up valves and symmetrically arranged gear unit feet) makes installation and servicing work both simple and safe.

FEATURES

- → No oil leakage, thanks to a **horizontally split housing and a drywell**
- → **Aligned feet and base surface** at the lowest level for easy installation
- → Customization thanks to a **variety of bearing concepts**, depending on the size
- → **Internal oil pump** for safe operation
- → Optimized motor adapter for **safe operation of large motors** and optimum air routing

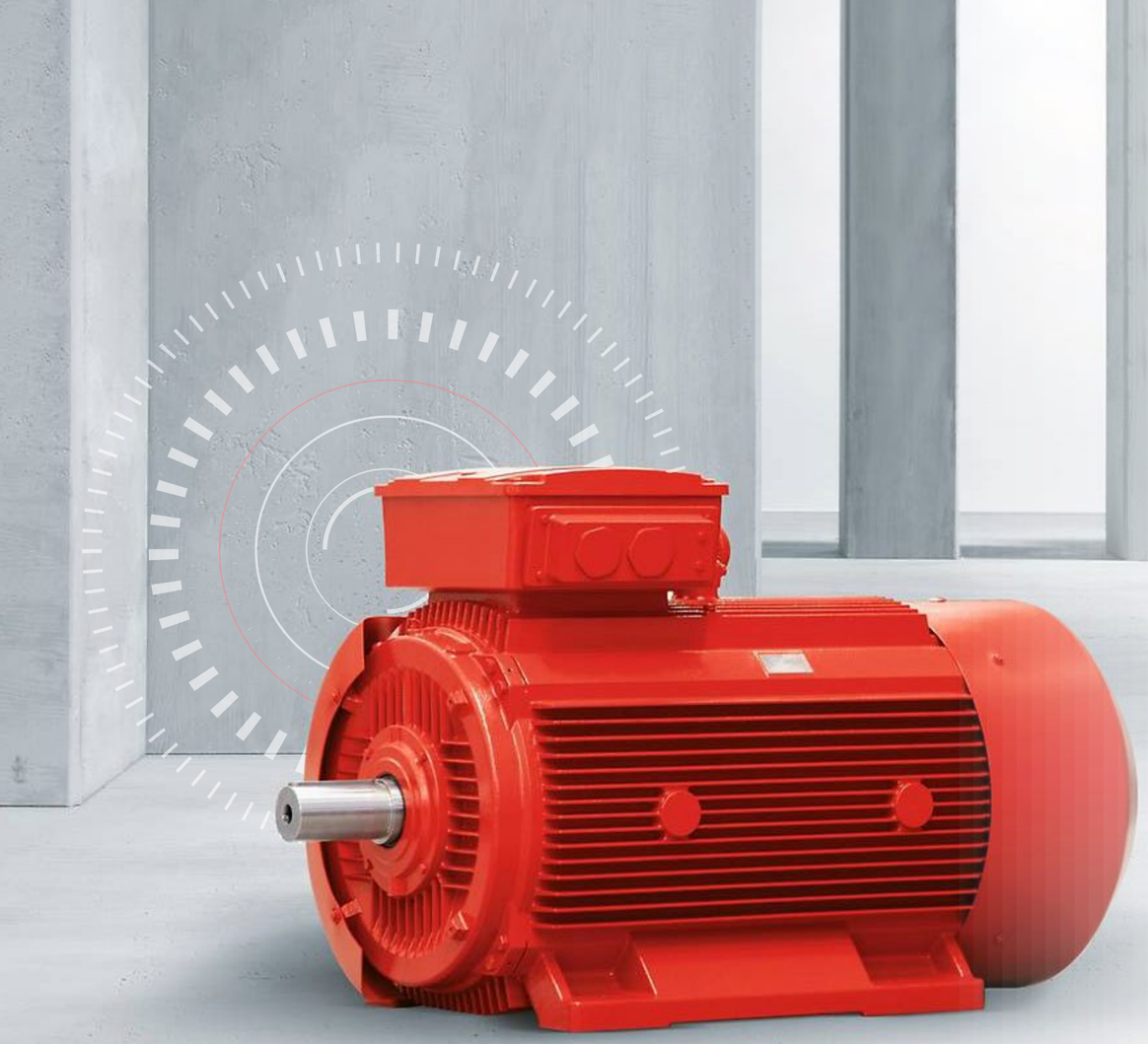
APPLICATION

- → Underground and open-pit mining
- → Recycling industry
- → Food industry
- → Chemical industry

TECHNICAL DATA

Gear unit	Nominal torque	Shaft diameter according to bearing type	Gear ratio
X..220e /HM	117 kNm	Moderate load: 240 mm Heavy load: 240 mm Heavy radial load: 250 mm	20 400
X..240e /HM	165 kNm	Moderate load: 260 mm Heavy load: 260 mm Heavy radial load: 270 mm	20 - 400
X..260e /HM	217 kNm	Moderate load: 280 mm Heavy load: 280 mm Heavy radial load: 290 mm	20 - 400

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DRN MOTOR

PRODUCT DESCRIPTION

With the DR../DRN/DR2.. modular motor systems, we implement millions of drive combinations and move different systems and machines, worldwide.

It is easy to find the ideal energy-efficient motor for your application at SEW-EURODRIVE. The DR../DRN/DR2.. series has a suitable design in its range for the globally applicable efficiency classes IE1 to IE4: DR2S for IE1, DRN.. for IE3 and DRU.. for IE4. Select the power, voltage and frequency within this motor design and you have already taken care of the most important selection criteria.

Are you missing IE2 motors in our range? You don't have to - because the DRN.. motors in IE3 are their perfect successor. The weight and dimensions of the new DRN.. IE3 motors are only marginally different from comparable IE2 motors. And the best thing is: the selling price of a DRN.. motor only differs from that of a DRE.. motor with the same performance in a few cases.

All other motor options are of course available independently of the efficiency class. A comprehensive braking concept and cost-optimized built-in encoders that are completely integrated into the motor ultimately complement the motor range.

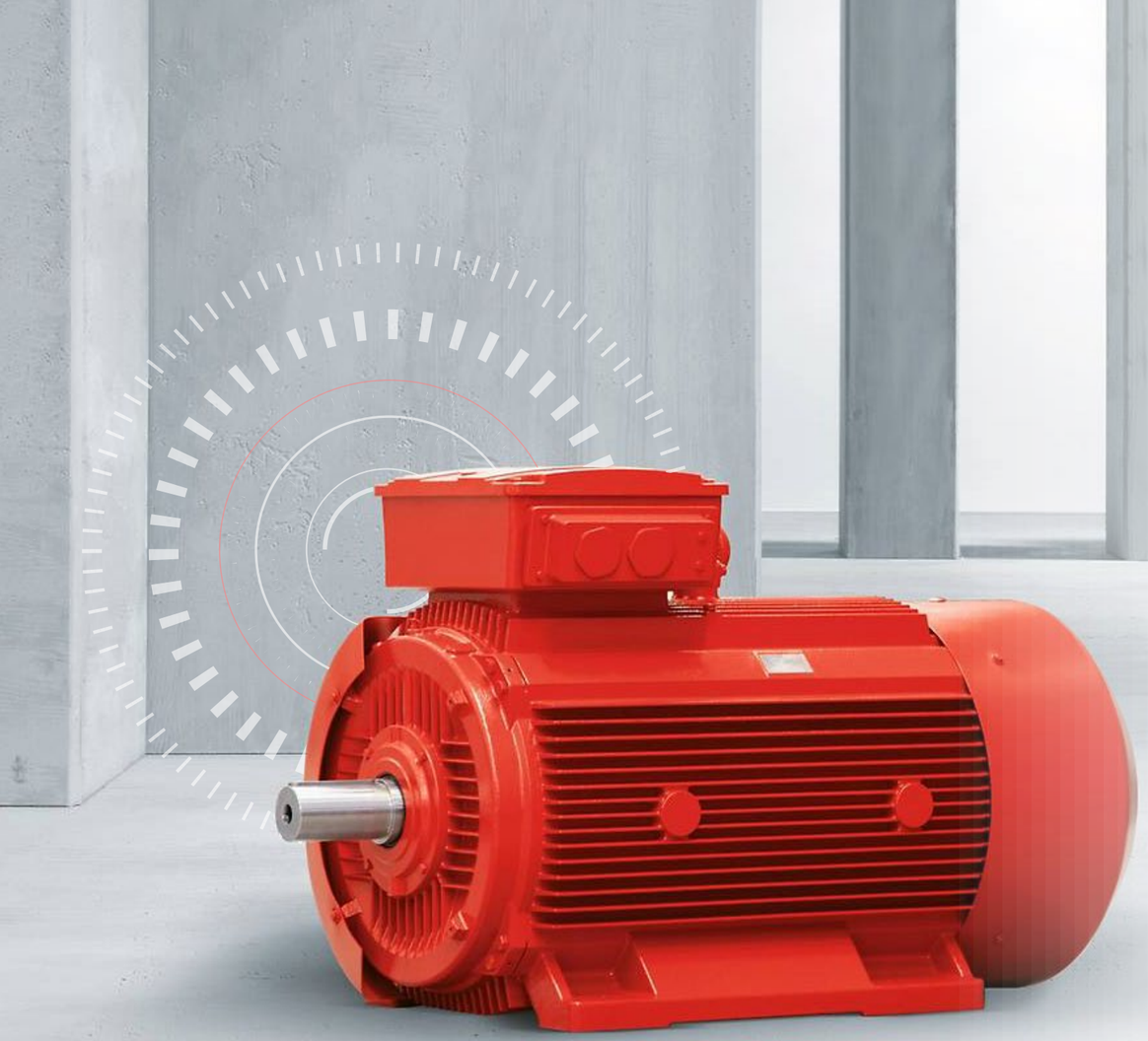
The motors of the DR../DRN/DR2.. series comply with the most important standards worldwide and the various requirements of the local energy efficiency regulations in a power range from 0.09 to 375 kW.

Save time and optimize your motor selection, ordering and logistics processes. As a Global Player, we offer this range of products around the world.

Only half the solution without a gear unit? Then use our sophisticated modular system and combine an AC motor with a helical, parallel shaft, worm, bevel or SPIROPLAN® gear unit of your choice. All of these gear unit types are already available off-the-shelf, combined with gearmotors- optimised in terms of length, robust and perfectly tailored.

For the first time, the size 355 is found as a solo motor in the DRN.. modular system. Combinations with an industrial gear unit, regardless of whether with an adapter directly into the helical or bevel-helical gear unit or the complete drive package on the steel swing arm, are the best possibilities for using an IEC solo motor.

Of course, we also supply the right inverter technology for the controller and control. We develop and produce the drive electronics ourselves to the highest quality standards so that they are perfectly tailored to our motors and gearmotors, and to your application.



DRN MOTOR

BENEFITS

Benefit from energy efficiency as the DR../DRN/DR2. series offers an appropriate design for each efficiency class and can therefore be used anywhere in the world.

Extend flexibility as the DR../DRN/DR2. modular motor system makes millions of drive combinations possible for you - individually tailored to your requirements.

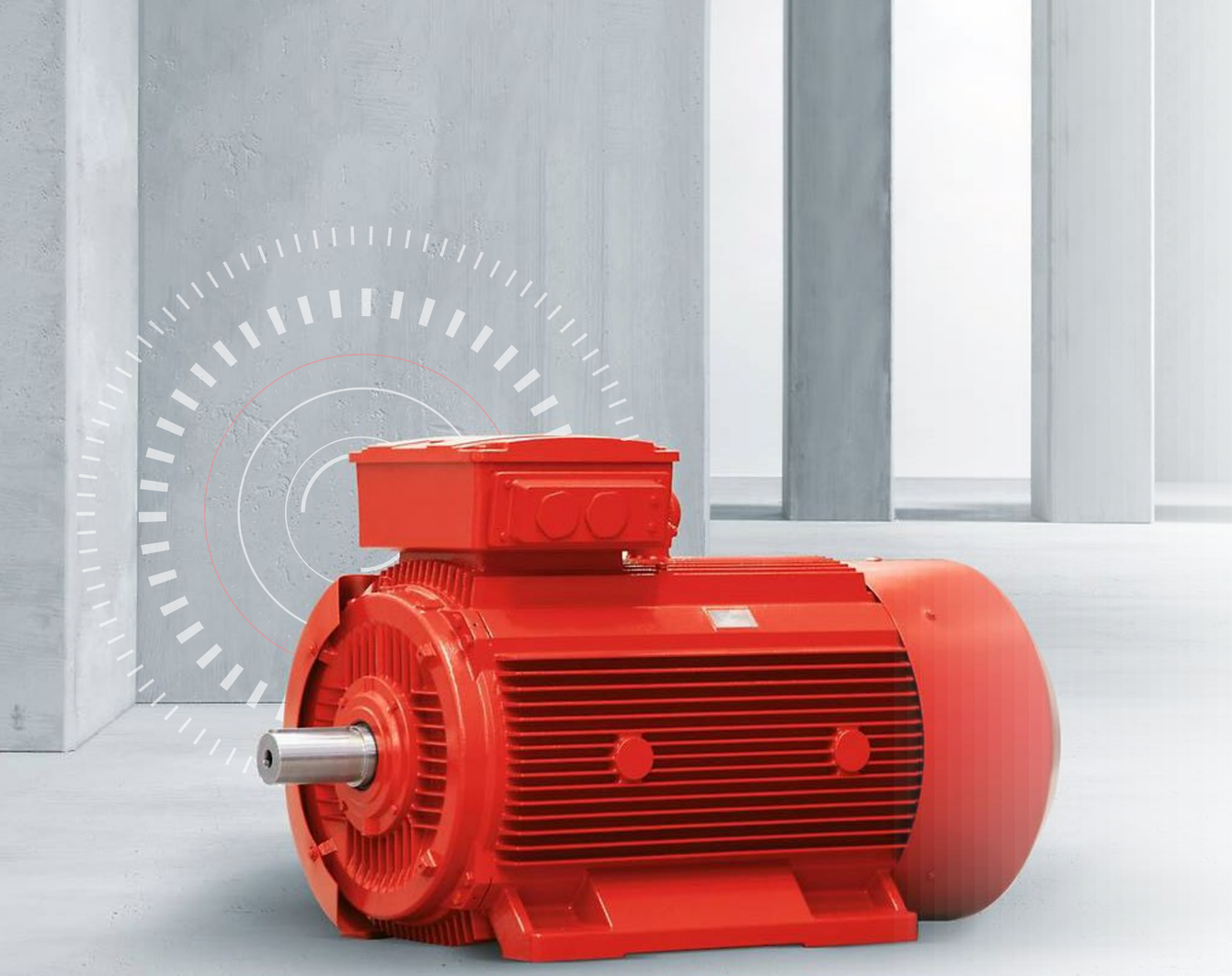
Simpler to select the right motor because our range of motors comprises over 30 performance levels, which means there is a suitable motor for practically every application.

FEATURES

- → **DR../DRN/DR2..** motors support all global standards and norms
- → Motors for efficiency classes **IE1 to IE4**
- → **Compact design** saves space and costs
- → **Significant time savings** thanks to optimized processes in motor selection, order processing, and logistics
- → **Future-proof,** also as regards environmental protection (standards)
- → **The "global motor"** combines many energy efficiency regulations and laws in one design: the DR.. series
- → **Operating modes** S1, S3/15%, S3/25%, S3/40%
- → **Reduction in operating costs** when using energy-efficient motors; our energy-efficient motors conform to the efficiency classes
  - Standard Efficiency (IE1)
  - High Efficiency (IE2)
  - Premium Efficiency (IE3)
  - Super Premium Efficiency (IE4)
- → **Comprehensive braking concept and combinations** i.e. up to three different brake sizes per motor size featured in the range
- → **Cost-optimized built-in encoders** fully integrated into the motor

APPLICATION

- → Can be used worldwide in all industries
- → Logistics conveyor belts of all sizes
- → Lifting applications
- → Applications that require control accuracy
- → Applications that require a mechanical fail-safe brake
- → Positioning tasks with integrated or mounted encoders



DRN MOTOR

TECHNICAL DATA

	Frequency 50 Hz	Frequency 60 Hz	
Connection	D / Y	D / Y	YY / Y or DD / D
Standard voltages V	230/400 V or 380 / 660 or 400 / 690	220 / 380 or 380 / 660, 254 / 440, 266 / 460 or 277 / 480, 440 / – or 460 / – or 575 / –	220 / 440, 230 / 460
IE3 global motor Standard voltages V	220 – 240 / 380 – 415, 220 – 230 / 380 – 400 or 380 – 400 / 660 – 690, 380 – 415 / 660 – 725	254 – 277 / 440 – 480 or 254 – 266 / 440 – 460, 440 – 480 / –	

IE grade	Number of poles	Motor type Size	at frequency of 50 Hz	at frequencies of 60 Hz and 50/60 Hz	
			Power kW	Power kW	Power hp
IE1	2-pole	DR2S..63MS – 132S	0.18 – 9.2	0.18 – 9.2	0.25 – 12.3
	4-pole	DR2S 56M – 225S DR2S 63M – 132M	0.09 – 45	0.09 – 45	0.12 – 60
	6-pole		0.09 – 5.5	0.09 – 5.5	0.12 – 7.5
-	4/2-polig	DR2S 63MS – 80M DRS 90M – 180L DR2S	0.15/0.20 –	0.15/0.20 –18.5/20	-
	8/2-polig	71MS – 80M DRS 90M – 132M	18.5/20 0.044/0.2 – 1.1/4.6	0.044/0.2 – 1.1/4.6	-
	8/4-polig	DR2S 71MS – 80MS DRS 90 – 225M	0.1/0.18 – 18/34	0.1/0.18 – 18/34	-
IE2	4-pole	DRE 71SJ4 – 100MJ4**	0.37 – 4.0	-	-
IE3	2-pole	DRN 63MS – 132S	0.18 – 7.5	0.18 – 7.5	0.25 – 10
	4-pole	DRN 63MS – 355ML DRN	0.12 – 355	0.12 – 375	0.15 – 500
	6-pole	63MS – 160M DRN	0.09 – 7.5	0.09 – 7.5	0.10 – 10
	8-pole	71MS – 112M	0.09 – 1.5	0.09 – 1.5	0.10 – 2
IE4	4-pole	NEW: DRU 90S – 355ML	0.75 – 355	0.75 – 375*	1 – 500*
		DRU 71SJ4 –100LJ4**	0.18 – 4.0	–	–

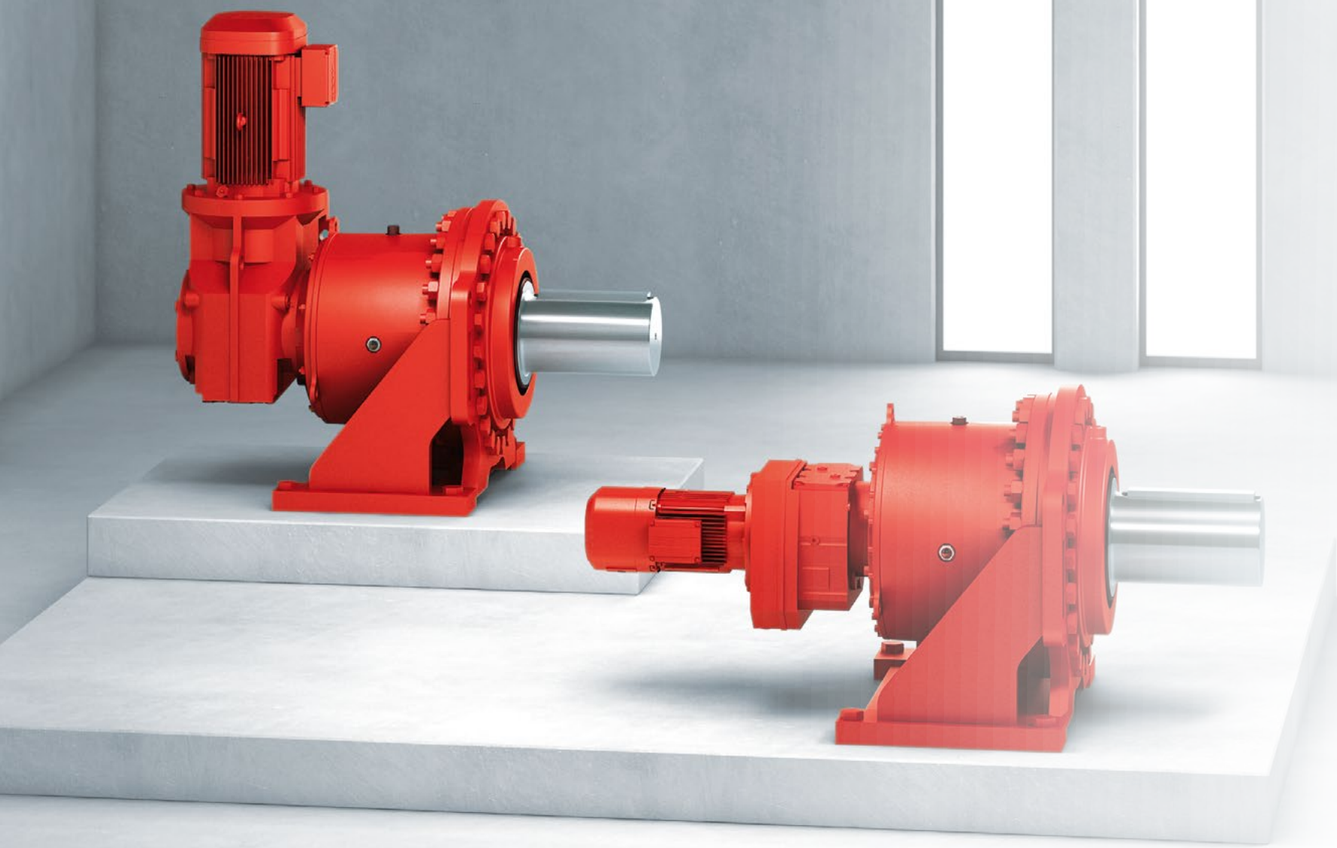
* 60 HZ
** LSPM technology

HIGH PERMITTED RADIAL LOADS

SUITABLE FOR SMALL INSTALLATION SPACES

TRANSMISSION OF HIGH TORQUE RATINGS

MAXIMUM FLEXIBILITY



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P SERIES

PRODUCT DESCRIPTION

The compact construction as a planetary gear unit and a primary gear unit is a feature of our industrial gear unit P series. They are used in systems which demand low speeds and a high torque.

Process engineering plants which run slowly depend on low output speeds and a high torque. This includes mixers and rotary filters. In addition to these features, users and outfitters of comparable systems demand reliable drive components.

With the industrial gear units of the P series you receive powerful and reliable planetary gearmotors which can be supplied at short notice in standardized versions, depending on the size.

Thanks to our modular concept, you have access to a comprehensive range of optional equipment. Another feature of the space-saving industrial gear units is the economical price-performance ratio. So you are best-equipped for all applications.

Industrial planetary gear units of the P series receive powerful support via an upstream gearmotor. Additional components which demand a lot of space and increase costs are thus a thing of the past. This means couplings, intermediate flanges and adapter flanges.

You will also find a suitable primary gear motor at SEW-EURODRIVE. Just use the entire range of our gearmotor modular concept and combine for different purposes.

BENEFITS

Save on installation space
through the short and compact mounting position of the industrial planetary gear units.

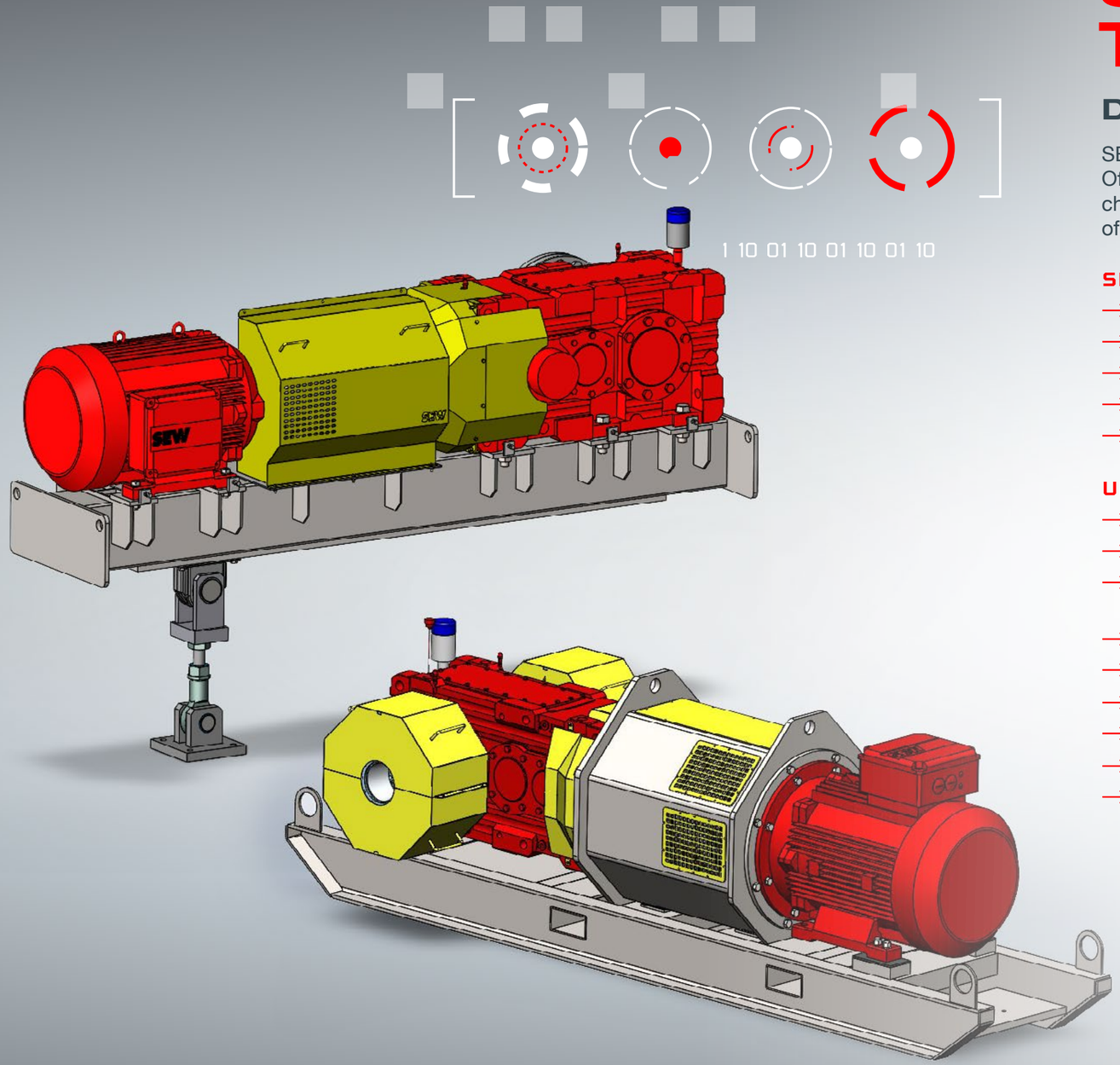
Reduce costs
by having an upstream gearmotor and by no longer having cost-intensive couplings, intermediate flanges and adapter flanges.

FEATURES

- → **Transmission of high torque ratings** for powerful movement of large quantities
- → Especially **compact design** for limited installation space
- → High permitted **radial loads**
- → **Upstream gearmotors** in helical version and bevel-helical version which can be combined with the planetary gear unit

TECHNICAL DATA

Gear unit type	Stages	Gear ratio i	Nominal torque MN2 kNm
P.RF helical gear unit..:	4 and 5-stage	100 – 4 000	25 – 631
P.KF bevel-helical gear unit..:	5-stage	140 – 4 000	25 – 631



SEW-EURODRIVE TrueDNA

DESCRIPTION

SEW-EURODRIVE's TrueDNA affords you with a turnkey solution to your industrial drive needs. Offering a high degree of adaptation flexibility, covering a broad range of power, torque and speed characteristics. The TrueDNA package can be easily adapted and integrated to drive a variety of equipment in a number of heavy industries.

SEW-EURODRIVE'S:

- → Most innovative Xe Series gearbox
- → Specified flexible / fluid coupling
- → IEC Motor
- → Rigid flange coupling
- → Your choice of a bell / swing / drop-in base

UNIQUELY OFFERS:

- → Offer mostly stocked items
- → Reduced lead times: approx 6-8 weeks from order
- → Prefilled with lubrication of choice or SEW Eurodrive's latest oil technology that offers extended lifetime, enhanced lubrication properties and improved efficiency transfers
- → Extended warranty at no additional cost
- → Latest advances and technology available to market
- → Unrivalled local stockholding
- → Complimentary maintenance training for end user of the drivetrain of choice
- → Competitively priced
- → Delivered to site

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PIVOT & WHEEL DRIVES

PRODUCT DESCRIPTION

The parallel shaft gearmotors of the F37E.. series and the worm gear reducers of the S87E.. series, developed for the irrigation market, are the perfect solutions for reduced installation spaces and maintenance savings. The drives can be used in a wide variety of applications, even under the most severe working conditions.

Committed to providing technical support and customised training that will maximize equipment performance and lifespan, you can be sure of increased productivity and profitability in your application.

TECHNICAL DATA

	GEARMOTOR	REDUCER
Type	F37E..	S87E
Possible applications	Perfectly suited for the agricultural and livestock market, in irrigation systems, acting in the movement of the system's central pivot.	Perfectly suited for the agricultural and livestock market, in irrigation systems, acting in the movement of the wheel of the system.
Characteristics	› Geared motors with helical gears and parallel shafts › Improved sealing system › Specially developed for irrigation systems central pivot › Exclusive SEW-EURODRIVE modular system. › The following project versions are available: - Mounting with feet - Solid or hollow shaft	› Worm reducers and orthogonal shafts › Bearings with greater overload capacity › Improved sealing system › Specially developed for irrigation systems wheel › Exclusive SEW-EURODRIVE modular system › The following project versions are available: - Standard or extended axle - Configuration for STANDARD or EXTRA HEAVY load
Reduction range - i	24.3- 29.9	50.0 - 52.0
Output torque	300Nm *	3.500Nm
Performance class	IR3	
Motor power range kW mounting via AM adapter	0.75 - 1.10	
Nominal frequency - Hz	50, 60 and 50/60	
Degree of protection	IPW56	

*DRN® motors meet Premium Performance requirements and are identified as IR3 according to ABNT NBR 17094-1.

BUSINESS DEVELOPMENT

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BUSINESS DEVELOPMENT AFTER SALES

Melvin Govender

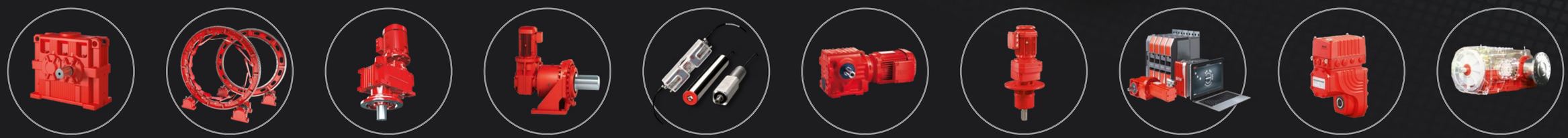
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